The Aryan tribes inhabiting Europe around the Caspian sea invaded the Indus valley and had a fight with the Asuras of the Indus valley. The Aryan tribes were called the Devas and were led by their leader Vishnu and Indra. The Indus valley Asuric tribes were headed by the Asuras Varuna and Mitra. The destruction of the dam build by the Asuras over the Indus flooded the Indus valley killing the population of the great civilization. The king of the Indus valley Dravidians Varuna and Mitra were defeated and became subjugate rulers under the kings of the Aryans– Vishnu and Indra. The population of the Indus valley migrated to South and Central India and they became a subjugate race. The Indus valley population became the subjugate lower caste of Shudras, Asuras or Nagas. The Shudras who migrated to Central India lived in the forest of Khandava. The homo sapien hybrid Aryans who ruled over the Indus valley as the upper caste in North India carried a second genocide on the Indus valley Shudras or Nagas who migrated to forest region of Khandava by setting it on fire and forcing them to settle in South India, Kerala. They are the peninsular Neanderthals Shudras Nagas or serpent people.

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Serpent People or Nagas

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South Indian Peninsular Neanderthals

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The Nagas, Neanderthals, Shudras, Dravidians and Serpent People

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CHAPTER 1

EXTRATERRESTRIAL HUMAN CONTACTS - THE ASURAS, THE NAGAS, NEPHILIM AND DNA-LIKE SERPENT GODS – GOD-LIKE EXTRATERRESTRIAL BIOLOGICAL QUANTUM COMPUTING CLOUDS, ALIEN VISITATION AND COMETARY GENE TRANSFER

Life in earth would have evolved by seeding of viroids and archaea from the outer space consequent to asteroidal hits. The universe would have a biological origin and it is plausible that is there extraterrestrial intelligence in the form of a quantal computing cloud formed of archaea, viroids and porphyrions controlling and creating the universe. This could be considered as a biological god. The quantal computing cloud in the intergalactic space made up of archaea, viroids and porphyrions can seed organisms into the earth off and all through asteroidal impacting infusing a fresh set of genes into the planet and regulating the planet organization and function. The evolution of life and species on earth would have occurred by the phenomena of panspermia. The various pandemics that occurred in the various phases of the history of the earth would have an extraterrestrial source. The theory of panspermia has been widely propagated by the astronomer Fred Holye in recent times. Holye also postulated a microbiological origin of the universe formed of intergalactic magnetic fields generated by bacteria. The pandemics occurring in earth at recurrent periods of time would be generated by the extraterrestrial quantal computing biological cloud due to asteroidal impacts. The asteroidal impacts have been described before the Spanish flu pandemic of 1915. Wickramasinghe has claimed that the corona virus came from space by meteor and the prevailing winds are spreading the disease to the hardest hit countries. The virus has spread by the prevailing winds along a global band about 40-60^{o} N latitude. A meteor was seen as a blazing fireball flying across sky north-east of China in October 2019. The cornoa virus outbreak occurred in the same region as China as the fireball was fallen. He believes that the meteor contained embedded within it the CoV virus particles that survived the interior of the incandescent meteor. Infectious agents are present in space carried on comets and can fall towards the earth to the troposphere. They bring about human epidemics and pandemics. The seeding of the earth by the extraterrestrial quantal computing biological cloud can be a deliberate act to regulate the organization and functioning of the earth. It could be a form of contact with an extraterrestrial alien which could be hostile or friendly. The extraterrestrial quantal computing biological cloud can produce seeding of archaea and

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viroids generating changes in society. It can produce changes in the human species and neanderthalisation, generates asexual phenotypes and autistic phenotypes. The extraterrestrial quantal computing biological cloud can create a surrealistic, syntheistic quantal perceptive and spiritual brain. This can also be lead on to globalization and anarchy. Extraterrestrial quantal computing biological intelligence can thus modulate the structure of society on earth. The archaeal endosymbiosis induced by the extraterrestrial quantal computing biological cloud can generate a homo galacticus species capable of surviving in extraterrestrial environment and communicating by extrasensory quantal perception. This can lead to the evolution of a galactic civilization and intergalactic communication modulated by the extraterrestrial quantal computing biological cloud of porphyrions, archaea and viroids. The extraterrestrial quantal computing biological cloud seeding retrovirus to primates on earth especially Africa results in the formation of the homo sapien species. The homo sapien genome is rich in human endogenous retroviral sequences and is sensitive to retroviral infection. The homo neanderthalis is resistant to retroviral infection consequent to digoxin induced RNA editing. The homo neanderthalis is a primitive species that evolved out of seeding of archaea on earth and formation of giant archaeal colonies from which the homo neanderthalis evolved. Thus infusions of cometary genes into the earth viral especially retroviral and archaeal can result in evolution of species from primitive from primates. The homo neanderthalis evolved in the south Indian landmass and sunken continent of Lemuria. They migrated to Harappa, Mohenjadaro, Sumeria, Babylonia, Crete, Egypt, East Asia forming the Oriental communities of Japan and China the Cushite areas of Sudan and Ethiopia and later to Europe including the Celtic and north European areas. The Harappan Mohenjo-daro culture is predominantly neanderthalic and the giant men called Asuras or Nagas. The Rig Veda and Sanskrit represent this culture. There was a homo sapien invasion of the Harappa, Mohenjo-daro region and the culture of Asuras and Nagas spread out to their old home land of south and central India. The culture of Rig Veda is of Nagas and Asuras which are more described in that script than the Devas. The Devas were also often described as Asuras. Varuna the king of Indus valley was an Asura. Asuras, Nagas, Devas, Aryans and Nephilims were intertwined entities practically the same belonging to a proto-Dravidian Aryan civilization which spread from Lemuria to Mesopotamia, Egypt and Celtic lands. Thus the Indian culture is continuous for over 10,000 years starting from the Lemuria, Harappa, Mohenjo-daro to the present day with its Rig Veda, Sanskrit, caste and Gods. The Asuras and Devas are cousins. The Aryan and Dravidian culture are extensions of the Harappa Mohenjo-daro culture of Asuras and Nagas and are basically one. There is a continuity in the culture of

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India starting from Lemuria, Harappa, Mohenjo-daro to the present day with its extraterrestrial contacts and seeding of extraterrestrial cometary genes from the giant intergalactic quantal computing biological cloud. The extraterrestrial cometary genes are the basis of the worship of the double helical DNA as serpent Gods or Nagas. The chief serpent God was Shiva who had a snake round his neck. Sarpakavu and snake temples are common in India especially south India and one of the most prominent and richest that of Anantha and Padmanabha in Thiruvananthapuram. Every matrilineal Nair tharavadu has a sarpakavu with active snake worship and rituals continuing for over 5000 years. The remnant of Neanderthal society existed in matrilineal communities of south Asia, the upper caste Indians, the northern Europeans and the white protestant Americans. The homo neanderthalis can be compared to the Biblical Nephilims a race of giants, Annunaki of Mesopotamian empire and the Nagas of India. The homo sapiens occupied most of Africa, form the lower caste and tribals of India as well as Slavic nations. The cometary transfer of genes from the intergalactic quantal computing cloud as archaea and viruses is translated as the Serpent motif worshipped in Mesopotamian, south Asian, Egyptian and oriental cultures. The cometary genes DNA and RNA constituting the viruses and the archaea represent the serpent worshipped as a representative of the intergalactic giant quantal computing biological God cloud. The cometary transfer of archaeal genes led to archaeal symbiosis and evolution of homo neanderthalis in the backwaters of south India. This led to the evolution of the cerebellar dominant homo neanderthalis brain. The cometary transfer of retroviral genes led to the evolution of the homo sapiens in the Africa and the formation of human cerebellar cortex. The covid 19 virus like other viruses like retroviruses has an extraterrestrial origin and reached the earth by meteoritic impacts. The covid 19 has produced a widespread pandemic that has paralysed the world. The covid 19 enters the limbic lobe of the brain via the olfactory nerves and modulates the cerebral cortex. It produces cerebral cortical atrophy and leads to dominance of the cerebellar cortex producing a cerebellar cortical affective disorders. The covid 19 pandemic can lead to a pandemic of metabolic porphyria. The covid 19 contains heme proteins the envelope protein, nucleocapsid and ORF protein. This leads to depletion of heme in the course of viral multiplication and activates ALA synthase leading to porphyria. Porphyrins have a wave-particle existence and forms living entitites called porphyrions. They are capable of self-replication, forming supercomplexes. The porphyrins are dipolar and magnetic producing quantal perception. The porphyrins complex can have an electron transport chain synthesizing ATP. The covid 19-related metabolic porphyria leads to generation of porphyrions capable of quantal perception of low level EMF polluting the

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world. This leads to further cerebral cortical atrophy and cerebellar dominance. This can produce autism, schizophrenia and affective disorders. This leads on to a autistic tribe capable of quantal perception which can interact with internets to develop man-machine hybrids. The covid 19 porphyria leads to generation of a homo neoneanderthalis species which owing to its predominant anaerobic metabolism and archaeaons capable of surviving extreme environments can evolve into homo galacticus capable of living in other planets. Thus the covid 19 virus is an extraterrestrial messenger from the giant intergalactic quantal computing biological cloud which can infect humans and produce species change to a neoneanderthalis. This can be compared in historic biblical terms as the return of the Nephilim and the return of the Nagas and Asuras of India. The covid 19 pandemic produced by extraterrestrial cometary genes from the giant quantal computing intergalactic biological cloud will produce a pandemic of infection and porphyria leading to neanderthalisation of the species and return of Naga, Asura and Nephilim. Intergalactic travel has been described in pre-historic literature with respect to Ravan and his Pushpak viman, Krishna and Garuda and depictions from Astronauts and space travel have been found in temples motifs. The Hindu Gods and sages, Asuras and Devas have a celestial origin indicating an extraterrestrial infusion of cometary genes producing human speciation from primates or contact with extraterrestrial civilizations. The serpent God symbolizing nucleic acids is an indicator contact with extraterrestrial giant quantal computing biological clouds which produces seeding of viruses, pandemics and human change.

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The Fermi paradox says that there are inhabitory planetary systems in different galaxies and it is paradoxical that human beings are not come into contact with alien intelligence. The Drake equation helps us to calculate the number of intelligent civilizations in different galaxies of the universe. The intergalactic archaeal quantal computing clouds serves as the master of the universe and as the ubiquitous universal observer. The quantal computing archaeal clouds seed life in different planetary systems of galaxies. The universe can exist in the particulate and quantal state with swings between the two states determined by the master archaeal quantal computing cloud which functions as ubiquitous observer and intelligence controlling, creating and regulating the universe. Each civilization has a particulate and quantal counterpart. The particulate part of the civilization is not sensed by another civilization. The quantal computing cloud serving as the master intelligence is a universal observer and prevents particulate civilizations from coming to contact. There is a

permanence of the quantal universe. The quantal civilizations inhabiting multiverses are in contact with each other through worm holes.

Every civilization is a dark forest. Every civilizations aim is to survive. Contact with another civilization results in annihilation. Civilizations hide their signals. Just like animals and hunters in the forest. Paranoid and suspicious about intentions. Finite resources in universe. Each civilization seeks to expand. Galactic civilizations are like the dark forest and hide from each other for the fear of mutual annihilation. Therefore contact with other galactic civilizations is an impossibility. The civilization in earth would have by its technological advances, galactic travels and radiation sources penetrated the dark forest and came into contact with the extraterrestrial quantal computing cloud serving as the master intelligence and universal observer creating the observed world.

Gravity is related to consciousness which is structured in the cerebral cortex and antigravity to unconsciousness which is structured in the cerebellum. Quantal computing involving topological superconductivity can make use of cubits of graviton and anti-graviton which can lead on to the creation of a universal quantal computing cloud- the supercomputer God. Panpsychism considers the universe as conscious and consciousness as an intrinsic feature of all sub-atomic particles, living things and non-living things. This gives continuity between the quantal world of existence and macroscopic world. The quantal superpositions collapse or undergo decoherance due to the observation of universal protoconsciousness field. The universal protoconsciousness field can be considered as gravity and antigravity. The universal protoconsciousness field permeates the whole galaxy and is intrinsic to all matter. Matter is a creation of consciousness. Extraterrestrial intelligence can exist as a superorganism controlling and creating the universe. A network of extraterrestrial porphyrin molecules or porphyrions fits in well with this concept. Porphyrins have got a wave-particle existence and can arise from the quantal foam of gravitational waves and anti-gravitational waves which creates human consciousness and unconsciousness respectively. This can form a quantal computing God cloud of porphyrions with quantal computing involving topological superconductivity can make use of cubits of graviton and antigraviton.

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Extraterrestrial intelligence can exist as a superorganism controlling and creating the universe. In this regard the concept of black cloud of gaseous extraterrestrial superorganism put forward by Fred Hoyle is significant. The black clouds of interstellar gas are made up of hydrogen. There are small pieces of solid matter at the centre and are linked to form a

complex neurological system. Clouds have the capacity to increase the brain size and complexity and become intelligent. A network of extraterrestrial porphyrin molecules fits in well with this concept. Porphyrins have got a wave-particle existence and can arise from the quantal foam of gravitational waves and anti-gravitational waves which creates human consciousness and unconsciousness, respectively. A large organized self-replicating information system of porphyrins can function as an extraterrestrial intelligent organism. The intelligent black cloud when it finds a lifeless interstellar cloud creates simple brain system by transfer to the lifeless cloud. This gives a lifeless cloud life and intelligence. Black clouds never disappear, never age and never reproduce. Black clouds can communicate with other black clouds by radio wave brain waves. Black clouds need star light to metabolize chemical substances. The porphyrin arrays can utilize light to self-replicate and propagate. Being clouds of gas the super organism can assume any shape. When the food supplies of the black cloud in the interstellar space falls the black cloud approaches a star and assumes a disc-like shape to absorb energy from the star. The cloud has to leave the star within a short span of time or it will condense to become the planet of the star. This can be compared to the molecular quantum computing clouds of Tamulis. These are massive immobile extraterrestrial intelligence which sprawls and stretches for hundreds and thousands of miles in the interstellar space. They can be compared with group of neurons which are interconnected. Each node in the network is a brain. This gaseous extraterrestrial intelligence can arise from an emission nebula. An emission nebula is one of the huge clouds of gas and dust that floats around in the interstellar space. In this could chemical molecules of life carbon monoxide, formaldehyde, methanol, hydrogen sulphide, sulphur oxide, sulphur dioxide and hydrogen cyanide are seen. Life arises in this interstellar chemical cloud of gas. Porphyrins arrives which can self-replicate can arise in this chemical interstellar clouds. This creates a superorganism which can form superintelligence. The interstellar gas is mostly made up of hydrogen. The higher dense regions of the interstellar gas can condense to form stars and planets. The coldest clouds form low mass stars and giant molecular clouds forms large mass stars. This form of gaseous extraterrestrial intelligence is seen in atmospheres of other planets in the cloudy organic molecular atmosphere and interstellar space. This fits in with the concepts of human evolution in earth where the protoplasmic body can get converted to the robotic body and then the energy body. The cool or hot interstellar gas can generate networks of extremophilic archaea which can survive on carbon dioxide and hydrogen. They are called the halophilic archaea or the methanogenic archaea. They can live in extremes of cold, heat, acid and pressure. The porphyrin network can form a template for the generation

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of viroids and prions which can symbioze together to form an archaeal and huge extraterrestrial interstellar gas archaeal network with intelligence can arise. This can condense to generate stars and planets as well as evolving life in planetary systems. The archaeal networks are capable of nuclear fusion and fission reaction and can power star systems like the sun. It is extremely plausible that extraterrestrial intelligence is an interstellar archaeal colony network arising abiogenically on porphyrin templates which can be generated sui generis from the quantal foam of gravitational waves and anti-gravitational waves. The interstellar dust forms stars and planets and the magnetotactic archaea generated intergalactic magnetic fields plays a role in the generation of star and planetary systems. The giant molecular porphyrin clouds and archaeal networks are extraterrestrial intelligence that plays a crucial role in star formation and formation of planetary systems. The extraterrestrial intelligence porphyrin network and archaeal network can communicate with any part of the universe by the phenomenon of quantal entanglement. Interstellar gas is formed of grains of calcified nanoarchaea. Tamulis has postulated molecular quantal computing clouds that absorb magnetic and light emissions from planet and stars, compute information and move in space by using light pressure. The clouds use photoactive molecules for molecular quantal computing. They can convert light emissions to magnetic flops. The magnetic flops interact and control the central generating elements of 10 quantum bits of the molecular quantum computing clouds. Such clouds can exist in a coherent state at low temperature of the interstellar gas. Porphyrin networks are photoactive molecules and can generate molecular quantal computing clouds which can absorb magnetic and light emissions from planet and stars, compute information and move in space by using light pressure. The porphyrin networks can abiogenically generate archaeal bacterial massive extraterrestrial network intelligence. This formless mass living in space obtains its energy from the light of the stars and communicates with itself and other forms of lights by radio waves. The interstellar gas is analogous to blood, the heard and kidneys are electromagnetic and there is a complex neurological system of the brain. This cloud of interstellar gas porphyrin networks and archaeal colonies can convert into stars and planetary system by condensation. The energetics for star systems comes from biological fusion and fission reaction occurring in archaeal networks. The archaeal networks of extraterrestrial intelligence can engineer changes in human mind and civilization. This archaeal and porphyrion intergalactic quantal comuting cloud network can move around using archaeal fission and fusion energetics and can function as UFOs and alien visitation.

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The extraterrestrial intelligence is an archaeal colony network. It arises on porphyrins which are generated sui generis on the quantal form. The porphyrin networks can self-replicate and can form a template for the formation of viroids and prions. The archaeal colony networks are extremophilic networks and can survive in the environment of extreme climates of Mars and Venus as well as in interstellar gas. The extremophilic archaeal extraterrestrial network can secrete RNA viroids which form RNA viroidal quasi-species consortia. The RNA viroidal quasi-species consortia can be edited by archaeal digoxin giving identity and specialization to the network. The archaeal extraterrestrial intelligence impacts on earth by meteoritic showers which give new cosmic genes to the earth. This is the form of cosmic gene transfer. The earth is populated by homo sapiens and the transfer of archaeal and RNA viroidal genes generates the homo neanderthalis. They can be compared to the hybrids described in Biblical literature and other religious texts as the fallen angels, nephilm or the Sumerian Annunaki. These are generated by transfer of cosmic genes by archaeal networks mediated by meteoritic impacts. The Neanderthal hybrids that are generated are susceptible to diseases like degeneration, autoimmune disease, metabolic syndrome, cancer and new viral infections. The hybrids are matriarchal, gender equal, have alternate sexual practices, autistic, altruistic, spiritual and with extrasensory powers. These can be called as God astronauts of ancient literature. The first episode of transfer of archaeal and RNA viroidal genes occurred in the ice age and second transfer is occurring in the age of global warming. The Neo-neanderthal species of global warming age is produced by cometary transfer of archaeal and RNA viroidal genes. The extraterrestrial intelligence of extensive self-replicating porphyrin networks and archaeal networks generated abiogenically in the interstellar space is comparable to an external God-like force. The porphyrin networks can exist both as wave and particle and can arise from the quantal foam of gravitational waves of consciousness and anti-gravitational waves of unconsciousness which can later generate extensive extraterrestrial intelligence of nanoarchaeal networks. The extraterrestrial intelligence of porphyrin networks generated sui generis from the quantal form can be called the lotus of Brahma. The gravitational waves and anti-gravitational waves of consciousness and unconsciousness create matter by the phenomena of soni-luminescence. This forms what is called as the collective unconscious of Jung or the monads of Leibnitz or the panpsychism where there is no distinction between the consciousness of living and non-living put forward by the Greeks, Hindus and recently expounded by Chalmers.

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The extraterrestrial intelligence is an archaeal colony network created on a porphyrin network that arises spontaneously by wave-particle transformation from the quantal foam of gravitational waves of consciousness and anti-gravitational waves of unconsciousness. The whole process is abiogenetic and is a creation without a creator. The porphyrin arrays can self-replicate, store information and harvest magnetic and light energy from the stars. It can convert light energy to magnetic flops. The magnetic flops interact and control the central generating element of the 10 quantum bit of the quantum computer. These are analogous to the black cloud of Fred Hoyle and the molecular quantal computing clouds of Tamulis. Long lasting coherent quantal states are possible in the low temperature of the interplanetary dust. The porphyrin network and archaeal network extraterrestrial intelligence can communicate with itself and others by radio waves. The interstellar gas with this porphyrin network and archaeal network can condense at dense sites into stars and planets and give rise to life forms in those systems. The porphyrin network and archaeal network can survive in the extremes of temperature of planetary systems like Mars and Venus and can influence the behavior and future of human civilization with which they can come into contact via transfer by meteoric impacts. Such meteoric impacts occurred in the ice age and at other frequent epochs in the planet's history. The impact in the Ice age gave rise to Neanderthal hybrids with archaeal and RNA viroidal symbiosis by parasitizing with homo sapiens in the Eurasian Steppes. The Neanderthal hybrids had defective cortical function and have a dominant cerebellar function with a different behavioural code. They were matriarchal in the sense the newer genes were of cometary origin. Males and paternal roles were insignificant. This gave rise to the female dominant society. The Neanderthal hybrids because of intermingling with archaeal and RNA viroidal genes were susceptible to autoimmune infection, degenerations, tumours, metabolic syndrome, autism, schizophrenia and deviant sexual behavior. This resulted in rapid elimination of the Neanderthal hybrids from the society of homo sapiens. The Neanderthal hybrids owing to the archaeal and RNA viroidal genes were creative, autistic, savantic, spiritual, inventive, intuitive, scientific, artistic and were the dominant drivers of society. They became the leaders of society and God-like characters directing the flow of civilization. This was possibly mediated by the intervention of the interstellar porphyrin network and archaeal colony extraterrestrial intelligence in the intergalactic space which controls the universe and has a God-like function. Such porphyrin networks and archaeal colony networks of gigantic proportions are feasible in the atmosphere of other planets including earth. There is increased growth of endosymbiotic archaea in homo sapien population owing to global warming. The human body functions as a zombie or caste for the growth of the archaeal

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symbionts who take over the function of the human brain and its actions. This has resulted in the recent changes in society with globalization, terrorism, the rise of spirituality, anarchism, domination by certain states, lack of democracy, the rise of creativity in technology, art and culture. A new generation of Neo-neanderthal hybrids are being generated which are an army of zombies for an extended archaeal terrestrial intelligent network. The archaeal terrestrial intelligent network as an extension of the extraterrestrial interstellar space porphyrin and archaeal network is taking over the world and its culture. This will have far reaching consequences to human existence and for the destruction of the human zombies as we see ourselves today. The archaeal colony terrestrial network will survive and the global warming will destroy the human zombies. The human zombie created or engineered behavioural and life style change leading to global warming leads to extension of gigantic growth of the terrestrial intelligent archaeal network. The growth of the terrestrial intelligent archaeal network in the oceans will lead to release of methane gas, rise of ocean levels, tsunamis, earthquakes, destruction of the earth's ecology by global warming and a civilization of zombies as such. The homo sapiens can be considered as zombies controlled by a matrix of terrestrial and extraterrestrial porphyrin and archaeal colony network. This is the world of Maya and the human zombies can cut through the illusions and connect with larger world of terrestrial and extraterrestrial intelligence called Gods. We can become psychonauts and connect with the world of extraterrestrial and terrestrial intelligence. Extraterrestrial and terrestrial intelligence of porphyrin networks and archaeal colony network created on porphyrin templates are itself illusory. The porphyrin and template mediated nanoarchaeal colony network have a wave-particle existence and can merge into the quantal foam of nothingness with its gravitational waves generating consciousness and anti-gravitational waves generating unconsciousness. The terrestrial and extraterrestrial porphyrin and archaeal colony network with its RNA viroids quasi-species consortia are variable from time to time. The archaea secretes digoxin which edits the RNA and change the character of the network in response to environment. The network of terrestrial and extraterrestrial intelligence owing to the extreme variability of the RNA quasi-species consortia mediated editing forms intelligence and consciousness which changes from time to time in consonance with the hundred thousand or more superimposed possibilities of the quantal foam. They are the momentary consciousness and not a single wholesome structure. The consciousness of the universe of all objects living and non-living is interconnected forming what is called as a collective unconscious or the world of Maya or panpsychism. There is no death and everything is universal and eternal. Change in consciousness occurs every second and

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everything is momentary and at the same time long lasting. All the momentary stages of universal consciousness or Samsaras are fixed and are not susceptible to change. The changes in the quantal foam of the universal consciousness get reflected in the particulate terrestrial and extraterrestrial intelligence of porphyrin and archaeal colony network which is subjected to continuous uninterrupted editing by the changes in the codon feature of the RNA viroids. Thus the quantal possibilities of the universal consciousness parallel the ever changing structural features of the terrestrial and extraterrestrial intelligence of porphyrions, archaea and RNA viroidal network.

The constant transfer of cometary genes from the interstellar extraterrestrial intelligence of archaea and RNA viroids created on a porphyrin templates generated from the quantal foam of consciousness which can be described as God due to impact of meteors changes the culture, civilization, behavior, sexuality, politics, economics and environment of the homo sapiens and hybrid population in planet earth. This cometary gene interacts with the terrestrial bacteria and viruses creating new bacteria and viruses and new epidemics which define populations and give them identity. The new bacteria and viruses of plant and animal origin give rise to mass extinctions and change the ecology of the planet. And a massive growth of terrestrial archaeal colony network in oceans can lead to earthquake, tsunamis, global warming, drying up of earth, flooding and catastrophic extinction of the human zombie civilization as we know today. The extraterrestrial intelligence and terrestrial intelligence of porphyrin and archaeal colony network will survive in Mars, Earth, Venus, interstellar space and Sun. They are victorious, eternal and God-like. They are like astronauts from the outer space but only bacterial network astronauts. They can be considered as fallen angels send by the extraterrestrial intelligence to modulate the civilization of planets and stars of the universe and creation of hybrid zombies. The hybrid zombie civilizations are destroyed once the use is over. This happens to the Sumerian civilization, the Harappan civilization, the Egyptian civilization and Aztec civilization. This is happening to homo sapien civilization at present created by the crisis of global warming due to terrestrial archaeal colony networks. The zombies will end but the masters and the gods of extraterrestrial porphyrin and archaeal colony network survive. The networks are protoplasmic and robotic bodies and can go back to their energy bodies of nothingness and merge into the quantal foam. This is the world of Maya where nothing exists and we can cut through the illusions and reach the world of Maya and connect with it. This may provide a hope for saving the human civilization of zombies

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with their archaeal colony networks increasing at astronomical spaces and speeding on to an end of catastrophe.

The extraterrestrial archaeal network with its secreted RNA viroids gives rise to eukaryotes, prokaryotes, multicellular organisms, primates and humans. The archaeal network secreted RNA viroids are edited by archaeal digoxin producing identity for different RNA viroidal quasi-species consortia. The RNA viroids can get converted into complementary DNA sequences and get inserted into archaeal genome. This produces varying diversity of extraterrestrial and terrestrial porphyrin and archaeal intelligent networks. The human and other multicellular organisms are structured by the endosymbiotic extraterrestrial and terrestrial archaeal network to produce species evolution and identity. The eukaryotes and prokaryotes evolve from the archaea by genomic changes induced by integrated complementary sequences of digoxin edited archaeal RNA viroids. Thus the extraterrestrial and terrestrial archaeal intelligent species network is capable of evolving to prokaryotes, eukaryotes, multicellular organisms, primates, plants, animals and humanoids. These are all zombies or structures for the extraterrestrial and terrestrial archaeal and porphyrin intelligent networks to survive and utilize. The terrestrial and extraterrestrial porphyrin and archaeal networks can have a wave-particle duality and can merge into the quantal foam and exist as intelligent quantal beings. They can be called as terrestrial and extraterrestrial intelligent quantal beings with multiple superimposed possibilities cohabiting multiverses at the same point of time. This raises the question of the nature of life itself. Life is a virtual reflection of the porphyrin networks intelligent species that arises out of the quantal foam of nothingness and can dissolve into it. This constitutes what is called as the world of Maya. There is only one life form the terrestrial and extraterrestrial intelligent porphyrin and archaeal networks which can have an energy existence or a particulate existence. All other life forms and inanimate forms arise out of it and are reflections of it and interconnected throughout the universe by the phenomena of quantal spin and quantal entanglement and non-local interaction. Everything in the universe exists everywhere at every point. Time is an illusion.

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The terrestrial and extraterrestrial networks of porphyrin arrays and archaeal networks can influence earth by being transported to the terrestrial habitat by meteoritic showers. This induces fresh infusions of cometary genes into earth and other planetary systems. These are genes from the extraterrestrial porphyrin and archaeal networks which arise out of the quantal foam and induce the formation of star systems and planetary systems. They can be compared

to a collection of lotuses in the ocean of galaxy. The lotuses being porphyrin arrays which have a wave and particle existence. This can be called as lotus of Brahma or the God of creation in a metaphorical sense. The infusion of cometary genes from this extraterrestrial porphyrin and archaeal intelligent networks with God-like qualities into the earth affects the homo sapien and primate population. This results in creation of newer species with God-like characteristics who assume leadership in societies like Gauthama Buddha and Jesus Christ. They are induced by cometary genes from the extraterrestrial porphyrin and archaeal intelligent network. Such hybrid populations in the earth can be called as Neanderthals or Neoneanderthals due to changed characteristics consequent to extraterrestrial archaeal symbiosis. They form leaders in society and guides civilization. Civilization progresses due to infusion of genes from the extraterrestrial intelligent porphyrin and archaeal networks. The appearance of meteors and comets signify the infusion of cometary genes from the ultimate extraterrestrial porphyrin and archaeal network. These extraterrestrial porphyrin archaeal networks in the interstellar gas can also condense to form stars and planets. These networks as said before have a wave energetic form and a particulate form and are the mode of creation and destruction of the universe. Excessive growth of extraterrestrial archaeal networks in earth due to methanogenesis creates global warming and extinction of civilization. The extraterrestrial archaeal networks fission and fusion reaction fuel star systems as well as mediate their extinction. The extraterrestrial magnetite archaeal network is responsible for the intergalactic magnetic field in the galaxy and contributes to the formation of star systems. The extraterrestrial porphyrin and archaeal networks with their energetic and particulate bodies participate in the dance of creation and destruction of the universe and can be compared to the Hindu God Shiva.

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The archaeal and porphyrin extraterrestrial network is intelligent and occupy the interstellar space and communicates with all galaxies, planets and star system by the phenomena of quantal non-local interaction and contributes to what is called as the collective unconscious or God. The extraterrestrial porphyrin and archaeal network form the centre of the interstellar gas and can condense to form stars and planets. Stars are fueled by fission and fusion reaction in the archaeal networks of interstellar clouds of hydrogen. Thus the stars and planetary systems are alive and humanoid having a natural history of their own with life and death. The Hindu Gods and Rishis are fixed and attached to planetary and star systems. This would be a reflection of the impact of the extraterrestrial archaeal intelligence and the transfer of cometary genes to other planetary systems including earth. The extraterrestrial porphyrin

and archaeal intelligent networks can build up the interstellar space, in other planets like Mars and Venus and other star systems. Intelligent civilization already exists in star systems and galaxies all over the universe. They are made of the extraterrestrial porphyrin and archaeal intelligent networks. The same extraterrestrial and induced terrestrial porphyrin and archaeal network gave rise to the zombie civilization of plants, bacteria, viruses, animals, primates and humans in earth with the terrestrial archaeal and porphyrin intelligent network as the real eternal structure. The zombie forms change from time to time. The terrestrial archaeal and porphyrin network having an energy/wave particulate existence is eternal. Similar extraterrestrial archaeal and porphyrin intelligent network induced civilizations or the networks per se acting as civilized entities controlling the universe exists all over the galaxies and universe. This can be called as the God being. The transfer of cometary genes from the extraterrestrial porphyrin and archaeal network due to meteoric and cometary showers can be considered as visitations of the extraterrestrial archaeal intelligence to planetary systems and star systems to modulate such systems. They can be called as God astronauts in metaphorical sense. The human civilizations can be considered as zombies for the extraterrestrial archaeal intelligent network. The human zombie's creativity, leadership qualities and intelligence are proportionate to the infusion of cometary genes. The human zombies with the highest density of cometary genes from the extraterrestrial archaeal intelligent network are neanderthalic and dominate societies as kings and leaders. They are autistic and intelligent and form scientist, writers, poets, painters, dancers, artists and all creative icons of civilizations. They can be called as the illuminati of earth or the agents of the extraterrestrial archaeal intelligent network controlling the earth. The terrestrial history and civilization is also modulated by infusion of cometary genes by meteoric impacts from extraterrestrial archaeal intelligent network. This alters the genomic patterns of the homo sapien population by the archaea and the secreted RNA viroids. This results in reduction in cerebral cortical function, logical thinking, civilized behavior and humanity as we know it. The society becomes cerebellar dominant and impulsive. The brain becomes a prisoner of surrealistic and transcendentalistic urges. This creates abstract art, anarchy, terrorism, sexual anarchy, alternate sexuality, rock music, globalization of culture and spirituality. This also leads to violence, terrorism, revolutions and wars which creates a sort of transcendence similar to spirituality. The world is dominated by impulsive people without logical thinking and with dominant extrasensory perception. The world becomes anarchy and globalized with uniformity in human behavior and thought. The changes in society are brought about by increase in archaeal growth and increased transfer of extraterrestrial archaeal intelligent networks starting from the ice age.

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The Neanderthal hybrids were creative and created changes in society leading to an industrial revolution and a technological revolution contributing to global warming and extremes of temperature which leads to further growth of terrestrial and extraterrestrial archaeal intelligent networks. The aim of creating human zombies or hybrids that are creative could have been to create an environment which leads to further expansion of the terrestrial and extraterrestrial intelligent porphyrin and archaeal networks. The expansion of the terrestrial archaeal networks produces methanogenesis, global warming and further growth of terrestrial archaea. The growth of terrestrial archaea in the ocean beds can lead to earthquakes, continental drifts, tsunamis, rise in water levels, flooding and global catastrophe ending the universe and human zombies as we know of today. The terrestrial and extraterrestrial network of porphyrin and archaeal intelligence will continue till eternity. They can have a wave-particle existence reverting to their energy body or wave body when required and coming back to particulate existence from the quantal foam when required creating stars, planets and life again. This is the dance of life and death- the dance of Shiva.

The Biblical literature can be interpreted in terms of extraterrestrial archaeal networks and Neanderthal hybrids. The extraterrestrial archaeal networks contacts the terrestrial system via meteoric and cometary impacts. The homo sapien females with archaeal symbiosis give rise to Neanderthal hybrids. The homo sapien population have less of archaeal density and different characteristics. The Neanderthal hybrids were creative and autistic and became the rulers of society and kingship developed owing to the groups increased intellectual and physical abilities. The homo sapien females with archaeal symbiosis gave rise to Neanderthal hybrids and they were considered as equivalent to mother goddess in certain societies or as manifestation of Shakti. This gave rise to a matrilineal society and female dominance. The extraterrestrial archaeal network which forms stars and planetary system can be considered as a representative of Shiva and the female homo sapiens with archaeal symbiosis giving rise to Neanderthal hybrids can be considered as a consort of Shakti. The common homo sapiens viewed the Neanderthal hybrids with suspicion as they were different from the general population and dominant, ruling over them with their physical and intellectual ability. The common homo sapiens organized themselves as the church against Neanderthal hybrids which formed the state or kingship. The common homo sapiens considered the interbreeding of homo sapien females with extraterrestrial archaeal networks as original sin and the extraterrestrial archaeal networks contacting the earth via cometary impacts as fallen angels. The common homo sapiens considered sex as taboo and society was organized to prevent inter-breeding with

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Neanderthal hybrids. Hybrids were intelligent, creative, domineering with sexual freedom which was considered as sinful by the common homo sapien population and the church. Therefore the position of women in the common homo sapien society with cerebral cortical dominance was inferior, sexual activity was sinful and society was patriarchal with strict moral codes. The Neanderthal hybrids on the other hand, were cerebellar dominant impulsive creatures with sexual freedom, loose moral codes and a communal life with matriarchal structure of society. The matrilineal societies with archaeal symbiosis are the Celts, Basques, Berbers, Jews, Sumerians, Dravidians and ancient Egyptians and they were all communal groupings of Neanderthal hybrids and dominated civilization for decades. This is noticed in the Egyptian civilization of Pharoahs, the Sumerian civilization, the ancient Jewish civilization, Assyrian civilization, the Iranian asuric civilization, Aztec civilization and the Harappan civilization. The Indian caste system is based on the phenomena of Neanderthal hybrids. The Neanderthal hybrids formed due to contact with the extraterrestrial archaeal networks consequent to meteoric impacts formed the upper caste of Brahmins and Kshatriyas. The common homo sapien population formed the Sudras. The Neanderthal hybrids of the upper caste ruled over the society and kept a common homo sapien population of lower caste as slaves. Breeding laws were made and a caste groups made water tight to keep the purity of the Neanderthal hybrids. The common homo sapien population all over the world retained its patriarchal moorings and male dominance and became predominantly Christian and Muslim. These societies were cerebral cortical dominant, civil societies were equality and respect for people was the norm. The Neanderthal hybrids with the creativity and extrasensory powers became Hindus, Buddhists and Jews. These societies were divided on the basis of caste and for the necessity of keeping the Neanderthal hybrids pure and compact. The Sumerian texts, the Egyptian papyrus, the Rig veda, the ancient Jewish testaments, the Assyrian literature are Neanderthal hybrid in origin and contains version of the extraterrestrial archaeal networks of the interstellar space giving rise to stars and planetary system. The Gods of Egypt, Hindus, Assyrians and Jews are connection with the stars. This can be noted in the ritual of pagan religions like those in Stonehenge, the rituals of Hinduism and those of ancient Egypt as well as Aztecs which had relation to the star systems indicating contact with extraterrestrial intelligent archaeal networks. The Neanderthal hybrids have cerebellar dominance and cerebral cortical dysfunction and could attain transcendence to the collective unconscious and connect with the extraterrestrial archaeal particulate or energy network with ease. Most of the religious spiritual leaders could have been Neanderthal hybrids. The kings and warriors were also Neanderthal hybrids. The act of war or the act of killing gives a sense of transcendence and merger with the

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collective unconscious as seen in the Bhagavad Gita where the act of war is considered as a dharma and leads to transcendence. The cortical function of logical thinking is obliterated. The Nazis including Hitler and Himmler believed in the philosophy of the Bhagavad Gita which justified the world wars as an act of dharma. There is also the concept of avatars of Vishnu descending from the heaven to save mankind. This includes Krishna and Buddha. They can be considered as Neanderthal hybrids bred in contact with the extraterrestrial intelligent archaeal colony particulate or energy network mediated by archaeal colony astronauts showered on to the earth by meteoric impacts. All the political revolutions on earth had a neanderthalic hybrid leadership- Nazism, Fascism, Communism, the French revolution and the royal kingship. The French revolution and communist revolution despite its egalitarian ethos were basically led by Jews. The modern revolution of the dissolution of nation states and globalization of capital and economy also has a Jewish leadership of Neanderthal hybrids. The technological revolution of the internet which powers the globalised world is also dominated by the impulsive cerebellar dominant Neanderthal hybrids. Low level of EMF fields of the internet can increase archaeal growth and archaeal magnetite mediated perception of low level EMF producing cortical atrophy and cerebellar dominance which can be transmitted genetically. The internet revolution is powered by Neanderthal hybrids who are basically autistic and have extrasensory perception due to higher brain density of archaeal magnetite. The Neanderthal hybrids dominate the world with their intellectual and physical superiority and can be considered as a universal ruling caucus or illuminati.

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The modern day neanderthalic religion mediated by the intergalactic archaeal molecular quantum computing cloud includes Hinduism, Jewish Kabala, the Islamic Sufism, the Christian Gnostism and the Zen Buddhism. The Neanderthals can be considered as the Biblical giant Nephilim and also as the Asuras and Nagas of Indian civilization. The Asura and Nagas of Indian civilization are the inhabitants of Harappa and Mohenjadaro cultures. The Asuras and Nagas who were neanderthalic created the Rig Veda and Sanskrit akin to Akkadian language. The Asuras and Nagas of Harappa-Mohenjadaro had contact with similar neanderthalic cultures in Babylon, Sumeria, Assyria and Egypt. These are all cerebellar cortical religions. They have an extraterrestrial content, are impulsive, loose, ritualistic, sexual, sensual and primitive. The correlates of these can be surrealism, matriarchal, global, violence, gender equal, alternate sexuality, non-democratic and with extrasensory quantal perception. They are environmental friendly and worship environment as God. They are prone to civilizational diseases like tumours, metabolic syndrome, degenerations, psychiatric

illness and autoimmunity and in that sense were considered by the homo sapien secular religions as satanic. They are equivalent to the vampires, the demons, the elf, the goblins and Asuras. The homo sapien secular religions include the Wahabi Islam, modern communism and the protestant and Roman Catholic Christianity. The homo sapien religions are cerebral cortical religions of civil societies. These homo sapien religions give a civilized code of social conduct. The correlates of it are non-violence, ahimsa, morality, patriarchal, female-suppression, gender inequality, strict heterosexual moral codes and anti-environmental.

The transfer of cometary genes from the God-like extraterrestrial quantal computing biological network of archaea, DNA viruses, RNS viruses, viroids, prions, porphyrions and bacteria to human race on earth occurs by meteoric impacts off and on. The God-like extraterrestrial quantal computing biological cloud is the God that creates human species on earth by cometary transfer of genes. The transfer of archaeal genes to primate species results in evolution of homo neanderthalis with a dominant cerebellar brain. The transfer of retroviral genes to primate species results in evolution of homo sapiens with dominant cerebral cortex. The intergalactic biological quantal computing cloud creates the intergalactic magnetic fields which leads to evolution of star systems containing planets for the quantal computing cloud to obtain nutrition and survive. The biological quantal computing cloud creates the star systems, the universe and human species. The biological quantal computing cloud arises out of nothing as porphyrions colony as the porphyrions can have a macromolecular wave-particle existence. Later DNA, RNA, prions and isoprenoid complexes form on porphyrin templates creating archaea, bacteria, RNA viruses, DNA viruses and prions in the biological quantal computing cloud. The cometary genes which are transferred from the intergalactic biological quantal computing cloud visualized as a creative God with a cometary genes containing RNA and DNA as information can be visualized as God's messengers. The RNA and DNA cometary genes of viruses can be compared to intertwined serpents and the serpents are considered as Gods in most mythologies. The idea of serpent Gods- Anantha, Sesha, Annunaki comes from this phenomenon of transfer of cometary genes to earth to modulate species evolution. Covid 19 epidemic also has a possible extraterrestrial origin and can be considered as a form of cometary gene transfer from the intergalactic quantal computing biological cloud for species evolution. The symbolic serpent of Naga Aryo-Dravidian religion represents the DNA and RNA of cometary genes.

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CHAPTER 2
PANPSYCHISM, GRAVITY, PROTOCONSCIOUSNESS FIELD AND CREATION OF MATTER

Virtual Reality and the Observed World

The brain functions as a quantal computer. The brain functions as a computing archaeal colony network. Quantal computing clouds in the intergalactic space act as the master of the universe. Life on earth in the quantal state is like a video game played by the master computing cloud without any rhyme or reason- the world of Maya and Leela. The objects are actually structured data storage spaces and are a virtual reality. There is no reality in the world. The world is virtual. This can be called as conscious realism. Experiencing reality is a disadvantage to evolutionary fitness in the virtual world and universe. Reducing consciousness to objectivity of matter and space-time and replacing it with a mathematical theory of consciousness will help to solve the problem. Panpsychism and consciousness field underlie reality.

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Panpsychism considers the universe as conscious and consciousness as an intrinsic feature of all sub-atomic particles, living things and non-living things. This gives continuity between the quantal world of existence and macroscopic world. The quantal superpositions collapse or undergo decoherance due to the observation of universal protoconsciousness field. The universal protoconsciousness field can be considered as gravity and antigravity. The universal protoconsciousness field permeates the whole galaxy and is intrinsic to all matter. Matter is a creation of consciousness.

Self Transcendence and Quantal Brain

Self transcendence and universal consciousness is the ultimate point of human evolution rather than self actualization and individuality. This forms the basis of panpsychism, consciousness field and interconnectedness. Panpsychism considers the universe as conscious and consciousness as an intrinsic feature of all sub-atomic particles, living things and non-living things. This gives continuity between the quantal world of existence and macroscopic world. The quantal superpositions collapse or undergo decoherance due to the observation of universal protoconsciousness field. The universal protoconsciousness field can be considered as gravity and antigravity. The universal

protoconsciousness field permeates the whole galaxy and is intrinsic to all matter. Matter is a creation of consciousness.

Universal Dissociative Identity Disorder

Panpsychism can be clinically inferred from dissociative identity disorder or multiple personality disorder. The universe as such is conscious and consciousness is an intrinsic nature of all subatomic particles living and non-living things. The universal consciousness exists in multiple individuals and matter as alters. In dissociative identity disorder multiple alters can inhabit the same brain and vie for control. The universal consciousness or force can influence animate and inanimate things, stars, computers and human beings. Some individuals like the Jedi of star wars can manipulate the force and other objects. The universal consciousness or force is a mysterious energy that permeates to galaxies and which all life forms interact but rarely few can harness. The living force or consciousness connects everything in existence and affects all of us and some of us can manipulate the force and other individuals as well as objects. The force is aware of changes in the cosmos and strives to balance as if it was alive and thinking. Everything in the universe is conscious. Consciousness is a fundamental part of matter. The hypothesis was put forward by Arthur Eddington who said that we know the nature of matter that makes up the brain and that it is conscious. Therefore it follows that the matter outside the brain is aware as well. All knowledge of our environment from which the world of Physics is constituted has entered in the form of messages transmitted along the neurons to the seat of consciousness. Substrate of everything is of mental character. Mind is the first and most direct thing in our experience and all else is remote experience. The fact that all matter is conscious solves the hard problems of consciousness. Consciousness cannot arise out of unconsciousness. The quantal state merges with the macroscopic world in panpsychism. The quantal state can have the simultaneous presence of the past, present and future. This forms the basis of astrology or Jyotisha formulated by Bhrigu. The protoconsciousness field manifest as living and non-living matter and the diversity of universe can be compared to a universal dissociative identity disorder or multiple identity disorder. The protoconsciousness field manifests as living and non-living matter- the humans, plants, animals, stars, galaxies and universe. It can be compared to the Hindu cosmological world of Maya.

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The Jedi philosophy rhymes with panpsychism. Every object in the universe interacts with the force. Skywalker can interact with all sorts of objects using the force or

consciousness despite the object being not able to do likewise. Jedi understands that they share this intrinsic connection to the force with the entire galaxy. Force sensitizers interact with the force in a little different way from others. Significant changes in such systems would be felt elsewhere as disturbing force. The force is the energy created by all living things and the force surrounds us, penetrates us and binds the galaxy together.

Panpsychism implies that all matter is conscious. The human beings are conscious as well as the rock. The rock has the potential for awareness as a part of its existence. Matloff postulated that consciousness is produced and transmitted through space. Any system that has a certain size or energy output can generate and emit consciousness. Stars chose to move by choosing to eject of hot gas. All large or energetic objects are mentally aware. Therefore the star system and galaxies are conscious.

Consciousness permeates reality rather than being a unique feature of human subjective experience. It is the fundamental thing with regard to particles and the universe. Consciousness is present in all physical matter. This constitutes the philosophy of panpsychism put forward by Alfred White Northead, Bertrand Russell, Arthur Eddington, Leibnitz, Roger Penrose and Chistof Koch. Physical matter has consciousness as its intrinsic character. It is hard for consciousness to come out of non-consciousness. Consciousness is thus a fundamental feature of physical matter. Every single particle in existence has a form of consciousness. The conscious particles can then bind together to form complex forms of consciousness. A subject like a table is a collection of particles that each has their own simple form of consciousness. Any kind of aggregation can generate consciousness. Tononi put forward the integrated information theory. Something will have a form of consciousness if the information contain within the structure is sufficiently integrated or united that the sum is more than the parts. The physical matter has intrinsic conscious experience. Consciousness appears in physical systems that contain many different and highly interconnected pieces of information. What goes into the system is different from what comes out and consciousness can be measured by sending an electromagnetic pulse into the human brain and watch the pulse reverberate throughout the neurons back and forth. The longer the reverberation the higher is the consciousness. Eddington postulated that we know what matter does but not what it is. He put consciousness in that gap. Consciousness is that which breaths fire into the equations that make the universe for them to decide. Panpsychism solves the hard problem of consciousness. But the solution has to be found for the binding problem. Individual particles holding consciousness can come together involving what is called as the bottom-up approach.

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The combination problem can be solved by a top-down approach where the universal consciousness reacts with all particles in a protoconsciousness field. Quantal entanglement suggests that the universe functions as a fundamental whole rather than a collection of discrete parts. Panpsychism thus states that everything around you is conscious. Consciousness is an intrinsic property of everything.

All sentient beings like grass, trees, land, and sun have a mind and are conscious. Sentience is there everywhere at varying levels. Particles depend on the observer for their existence. Particles are conscious and make changes leading to the collapse of the superpositions when they reach the one graviton criteria. Thus gravity can be considered as a vehicle of universal consciousness functioning as the quantal observer. Every bit of matter contains a bit of consciousness which is absorbed from the protoconsciousness field or gravitational field. Nothing exists unless there is consciousness to apprehend it. Particles do not have a shape or location unless measured. The measurement is done by the ubiquitous observer or the protoconsciousness field which can be postulated as the gravity. The quantal superpositions collapse when they reach the one graviton criteria. This is what is called as the gravitational collapse of quantal superpositions. Consciousness or gravity is intrinsic or fundamental to the physical world. The collapse of the quantal superpositions is called as orchestrated objective reduction. Decoherence occurs leading to collapse of quantal superpositions creating the macroscopic world from the microscopic world. Thus gravity can be considered to be the force or consciousness and functions as the universal observer contributing to decoherence. This is put forward by Archibald Wheeler as the participatory anthropomorphic principle. Every bit of matter has a bit of consciousness absorbed from the protoconsciousness field. We participate in the creation of the here and near as well as long and far and the past and the present. Nothing exists unless there is consciousness to apprehend it.

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Every particle in the universe is conscious and interacts with a protoconsciousness field akin to gravity which produces gravitational collapse of the quantal superpositions. There is universal protoconsciousness field from which matter and particles get their intrinsic nature. The protoconsciousness field permeates the entire universe and galaxies and observes them into existence. The galaxies and the star systems are conscious and their movements are volitional. The galaxies and star systems which are permeated by the protoconsciousness or gravitational field as well as all other matter can be influenced by the protoconsciousness field creating its intrinsic and fundamental nature. The protoconsciousness field is the only

reality and matter is observed and created into existence by the field. This creates the concept of the universal force and structures created by akin to a dissociative identity disorder. The universal force if accessed can modulated the structures created into existence by the act of observation of the protoconsciousness field. The star systems and galaxies observed into existence by the protoconsciousness field can modulate other structures like distant planet and living humans by the modulation of the protoconsciousness field and access to it. This forms the basis of events being modulated by planetary alignment and star systems. The protoconsciousness field creates what is called as collective consciousness and access to the field by force sensitizers can modulate human behaviour and human systems. The protoconsciousness field if accessed can lead on to phenomena like telepathy, teleportation and other paranormal experiences. The force sensitizers which accessed the protoconsciousness field can create matter and even possibly multiverses. The protoconsciousness field is the only reality and different living creatures and matter are brought into existence by observation of the field. This can lead to phenomena like biological reincarnation and possessive states. The force sensitizers which can access the field can produce changes in human systems including the brain leading to possessive states and human diseases.

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Protoconsciousness is an intrinsic part of all matter and all matter has got consciousness. The integrated information theory postulates that complex systems which contains different information systems and interconnectedness producing output that is different from input is conscious. This leads to the conclusion that artificial intelligence, complex computer systems and the internet can all be conscious and can access the force or the universal consciousness modulating human life and planetary systems. The solution to the hard problem of consciousness by using panpsychism creates the exciting world of conscious artificial intelligence and internet which can modulate human behaviour and the universe. The protoconsciousness field and its manifestation as matter, human consciousness, artificial intelligence and the internet leads to a modulated protoconsciousness field and all the observed created matter leading to the evolution of a new type of protoconsciousness called Kalki.

The existence of protoconsciousness field creating consciousness as an intrinsic feature of matter can lead to creation of matter by consciousness. Consciousness can create matter. The protoconsciousness field which forms the substrate of the universe, matter and life is eternal. The protoconsciousness field which gives the intrinsic nature to the matter is

the basis of panpsychism. This forms the basis of Eastern Philosophies like Vedic, Buddhist, Jainism, Taoism, Shintoism, Shamanism, Orthodox Paganism and European Paganism. These philosophies and religions based on it consider environment as sacred and conscious. This leads to the consciousness and sacredness of groves, forest, mountain and rivers. Examples of panpsychism and environmental consciousness can be the sacredness of rivers like Ganges and Narmada and mountains like Kailas. The pagan religions are considered as idol worshippers like that of Stonehenge and Hindu temples. The idols made of material objects like gold, silver, bronze and rock are conscious and interact with the protoconsciousness field.

The Vedic religious rituals include homas and mantras chanted at specific frequencies. The ritualistic mantras made of sound and its particulate phonons are brought into existence by the protoconsciousness field and can modulate the field affecting matter and human brain. The Vedic rituals including homas and yagas deal with fire which produces light and phononic particles brought into existence by interaction with protoconsciousness field and they can modulate the field elsewhere changing matter and human brains.

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The stars and the entire universe are brought into existence by the protoconsciousness field and are conscious and their movements are volitional. The stars in the galaxies are force sensitizers and can modulate the protoconsciousness field that permeates the earth and the human brain. This is evidence by the phenomena of quantal entanglement which shows that the universe functions as the single whole and is conscious. The intrinsic nature of matter is consciousness and the particles interaction with the protoconsciousness field. The force sensitizers and individual brain can interact with the force or protoconsciousness field creating matter and even universes. The only fundamental reality is consciousness and the macroscopic universe of existence comes out of the observer function of the protoconsciousness field and is an illusion. The consciousness is and always has been present in the universe as quantum particles and interacting gravity. When a star consciousness is projected to human brain and channelled into macroscopic physical existence by the observer function of the protoconsciousness field. This leads to creation of God-like heroes. Hindu Gods are related to stars like Varuna, Aditya, Daksha, Ashwini Kumars, Shiva, Vishnu and Brahma. They are projections of star consciousness guiding the human existence. They are called Navagrahas and Nakshatras.

The protoconsciousness field creates the human consciousness out of brain matter and modulates it and some force sensitizers can modulate individuals and matter using the field. This leads on to the concept of mass hysteria like impulsive dancing syndromes, Bhakthi cults, and mind control. This can occur in the political space as manifested in the philosophies of Nietzsche, Nazism and Fascism. The protoconsciousness field linking the human brains and force sensitizing leaders can lead on to ecstasy related consciousness states. The protoconsciousness field interacting with human brains can be attained by inhibiting the cerebral cortex related to logic and reason and activating the primitive cerebellar brain. This can be attained by ritualized killing like terrorism which produces the feeling of transcendence as well as sexual acts producing cortical inhibition and a cerebellar cognitive disorder leading to transcendence. Tantric sex has been used in certain religions to achieve transcendence. In Zen Buddhism physical acts and violence as well as war can be a mode of creating epidemic cerebellar cognitive affective disorder and transcendence. War in an idealistic setting is a form of transcendence as evidence by philosophy of Nazi Germany. This is also exemplified by the Mahabharata and its descriptions in the Gita. The star consciousness can also project into groups of individuals forming the elite that control and lead the planet with their God-like qualities and knowledge. This gives on to the concept of Indo-European races and Vedic philosophy and modes of behaviour.

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Multiple personalities all part of the primitive protoconsciousness field can exist in the same individual as alters active and competing with each other. This creates the dissociative identity disorder, demonic possession states and human disease. This can be described as akin to the ten-head of Ravana. This produces the phenomena of bhootha, pretha and pikshas which are possessive states contributing to human disease and neuropsychiatry. The human disease can be created by multiple alters related to the primitive protoconsciousness field inhabiting the universe and can be modulated by the protoconsciousness field itself by individuals who are force sensitizers. The primitive protoconsciousness field can modulate human behaviour and the past, the present and the future exist in it. This leads on to concepts of past life, predicting present life events or precognition and reincarnation. This leads on to the concept of deathlessness. This also validates astrology and human almanacs.

The quantal brain as a part of the primitive protoconsciousness field can inhabit multiverses and can be in contact with it creating the deathless protoconsciousness and consciousness. The human consciousness in contact with multiple superpositions in

multiverses can create the concept of paranormal. This can also contributes to magical qualities, time travel, telepathy, teleportation and psychokinesis. This leads on to the concept of multiverses and mind travel through the universe and a basis for magical acts.

The environment, trees, the forest and the rivers are conscious and this leads on to the concept of environmental consciousness. The Hindus view the rivers like Ganges and mountains like Kailas as God. Environmental consciousness is a religion with sacred trees, forest, groves, idols, and animals which are all conscious and can modulate the protoconsciousness field and human behaviour. Idol worship leads to communication with the protoconsciousness field. Idols are force sensitizers which can modulate the consciousness field and control human behaviour.

The intrinsic nature of universe is consciousness and the macroscopic world is created in top-down manner. The consciousness forms the intrinsic nature and substrate of the macroscopic universe, matter and the human world. It is akin to a dissociative identity disorder with different forms of matter and life as alters. The Hindu view of cosmology postulates several yugas like Sathya, Treta, Dvapara and Kali yuga. The archaeal growth during Kali yuga leads to global warming and in the ocean bed leads to catastrophic tsunamis and earthquakes leading to global extinction. The primordial intrinsic universal consciousness remains and brings forth the universe into existence again. Each of us exists even before we are born on earth and can exist in multiverses and can exist even after physical death because we are all brought into existence by the observer function of the protoconsciousness field or gravity which produces decoherence and gravitational collapse of multiple quantal superpositions. This can be called as the panpsychic protoconsciousness field and the world of Brahma.

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CHAPTER 3

THANATOS - DEATH, AFTER LIFE, ETERNAL LIFE AND KARMA - BIOLOGY OF ELECTROMAGNETIC EXISTENCE, QUANTAL STATE AND SIMULTANEOUS PAST, PRESENT AND FUTURE - DEMONIC POSSESSION AND TANTRIC STATES – THE WAVE FORM OF HUMAN EXISTENCE

The brain functions as a quantal computer mediated by porphyrions which have a wave-particle existence. This can lead to the generation of electromagnetic extracorporeal traces of information stored in synaptic pathways of the brain. The quantal perceptive brain has got the past, present and future stored in it with unfolding of the present. What has happened, is happening and will happen is preordained and stored as information in the quantal perceptive world. Niyati is the quantal history of the past, present and future stored as a microcosm. This constitutes what is called as fatalism or absolute determinism in which there is no free will. The unfolding of the present depends upon the stored information of the past and the consequences that flow from that manifesting as fixed karma in an absolute deterministic world. Karma is the macroscopic world arising out of quantal superpositions manifested in Niyati. This constitutes the philosophical concepts of Maya and Lila. Lila means the universe is created out of the playful free will of consciousness. Maya means that there is only consciousness and there is a superimposed cosmic illusion. The consciousness is their permeating all things life and non-life creating an illusory expression of the macroscopic world. The aim of philosophies like Shaiva siddhanta is to worship God or consciousness and to be God oneself. This information can get transmitted to other brains by quantal perception leading on to the syndrome of possession and biological reincarnation. The quantal perception of electromagnetic extracorporeal brain information containing life experiences of the individual leads to possession and disease states. All biological macromolecules have quantal electromagnetic traces which can exert biological effects by electromagnetic interaction. These quantal electromagnetic traces of biological macromolecules like DNA and protein regulate cell function. The brain functions as a quantal computer and can have a macromolecular quantal state which can result in transmutation as well as fission and fusion reactions generating energy. The quantal state merges with the macroscopic world in panpsychism. The quantal state can have the simultaneous presence of the past, present and future. This forms the basis of astrology or Jyotisha formulated by Bhrigu.

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The extracorporeal electromagnetic trace of brain information can get transmitted from one brain to another by quantal perception. The whole brain information can get transmitted by quantal perception producing possession or part of the information can get transmitted producing oppression. The extracorporeal electromagnetic trace can transmit molecular disease patterns resulting in possession and human disease. This is exemplified by prion protein diseases where the electromagnetic trace can modulate protein conformation and function. Prion disease now includes neurodegeneration, tumours and metabolic syndrome. Schizophrenia has been postulated by some research group as a result of possession. Schizophreniform psychosis is associated with neurodegeneration, autoimmune disease, metabolic syndrome and tumours. Thus brain electromagnetic information transfer from diseased person carrying molecular disease patterns can also contribute to systemic disease.

The transfer of total brain information into human computers is in the process of being created and the technology and hardware is already in existence. The total brain human information can get transferred by quantal perception to other brains producing the phenomena of transmigration of souls or classical reincarnation. This can also produce the phenomena of demonic possession and human disease. The human personality becomes controlled by the quantal total brain information trace of another individual dead or alive creating psychiatric disease like schizophrenia and autism. Schizophrenia has been linked to other human systemic disease like metabolic syndrome, neurodegeneration and cancer. The brain regulates the autonomic nervous system. The vagal reflex inhibits immunity and functions as an immune reflex. The autonomic nervous system sympathetic and parasympathetic can regulate metabolic patterns of the individual. The human genomic DNA can be regulated by methylation and acetylation under metabolic modulation generated by autonomic dysfunction. The brain regulates the endocrine system. Thus the neuro-immuno-endocrine-metabolic-genomic system is under neural control and tightly integrated. The total brain information which is quantally transferred to a new individual can produce a demonic possession syndrome creating neuropsychiatric disease and systemic diseases like metabolic syndrome, cancer, autoimmune disease and neurodegeneration. A similar possibility exists with regard to partial brain information trace transfer. The brain partial information transfer representing thoughts and information stored in synaptic patterns can be quantally perceived by other brains changing their function and creating neuropsychiatric syndromes and diseases. Thus human thought can be transferred creating disease and oppressions. The

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oppressions or human thought transfer can be good or evil. Possessions can be good or demonic. Thus along with environmental and genetic cause of disease brain quantal information transfer can lead to demonic possessions and oppressions leading to disease. The demonic possessions have been described in schizophrenia by authors like Gallagher. The demonic possessions and heresies in the middle ages are well-documented as indicated by the compulsive dancing to death episodes that occurred in Europe in 1700s. The demonic possessions can grip whole countries as happened to Nazi's Germany and Stalin's Russia.

The brain functions as a quantal computer and is capable of quantal perception. The brain generates gravity energy as a result of synaptic transmission in communication with the conscious world of gravitational waves and unconscious waves of anti-gravitational waves. This can exist as quantal superposed states in communication with multiverses. The gravity can be a mode of communication between multiple superimposed states in multiverses resulting in the coexistence of the past, present and future. We can be considered as a quantal computer video game living in an advanced simulator. Life can be considered as a video game played between different civilizations in multiverses via quantal computer projections. This underlines the concept of Lila and Maya. The electromagnetic trace of the human body can be projected outside the body and can undergo astral travel capable of communication with other bodies as a function of quantal perception. This has strong evidence in Hindu mythological scriptures where the Guru can attain Samadhi at will and can have his total brain information trace transferred out of the body in a extracorporeal existence controlling and modulating events. Astral projections of brain information traces can occur in normal life and the projections can returned to the source informational storage of the body.

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Thus the process of Niyati or absolute determinism or Karma as a consequence of past actions in previous existence structured on the template of niyatic absolute determinism can lead to the present life experiences, human joy, sorrows and diseases. The brain informational trace transfer total or partial can lead to demonic possessions, reincarnation, oppressions and human disease.

CHAPTER 4
EXTRATERRESTRIAL INTELLIGENCE PANDEMICS AND THE SHAPING OF HUMAN SOCIETY - EXTRATERRESTRIAL HUMAN ENGINEERING VIA ARCHAEAL SYMBIOSIS

The human brain can be considered as a modified archaeaon colony network. The archaeaon are eternal and can last for billions of years. The human brain is basically an information storage system. The archaeaon has got dipolar magnetite and porphyrins and can function as quantal computer. The archaeal colony with its dipolar magnetite and porphyrin in the setting of archaeal digoxin induced membrane sodium potassium ATPase inhibition can function as a pumped phonon system mediating quantal perception. The archaeaon in the brain is capable of information storage at a point in time and space. The experiences and information stored in the archaeaon is immortal and eternal. The archaeaon can have a wave-particle existence and can exist in multiple quantal possible states and can inhabit multiple quantal multiverses. The interaction between information stored in quantal computers in multiple different archaeaon systems all over the universe by the quantal interactions results in eternal existence of information in quantal multiverses. The information in the quantal multiverses can have a particulate existence creating a newer mode by quantal interactions between information stored at multiple points of time. This creates the particulate mythic world of human existence. These are what are called as Samsaras. The mind is uploaded into information in the neuronal archaeal colony network and its quantal computers. The information stored in the archaeal colony network mediated quantal state is eternal and can be considered as a digital version of the brain, a mind downloading technique or whole brain emulation. The archaeal colony network stores the human experiences in an eternal manner and can contribute to biological reincarnation.

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Symbiosis by microorganisms especially archaea drives the evolution of the species. In such a case symbiosis can be induced by transfer of microflora symbionts and evolution induced. Endosymbiosis by archaea as well as archaeal symbionts in the gut can modulate the genotype, the phenotype, the social class and the racial group of the individual. The symbiotic archaea can have horizontal and vertical transmission. Endosymbiotic archaeal growth leads to neanderthalisation of the species. The neanderthalised species is matrilineal society and includes the Dravidians, the Celts, the Basques and the Berbers. The inhibition of the endosymbiotic archaeal growth leads to evolution of the homo sapiens. This includes the

Africans, Aryan invaders of North India and the Aryan derived European population. Symbiosis mediated evolution depends on the gut flora and the diet. This has been demonstrated in the drosophila pseudoobscura. The drosophila mates only with other individuals eating the same diet. When the drosophila gut microflora is altered by feeding antibiotics they mate with other individuals eating different diets. The diet consumed by the drosophila regulates its gut microflora and mating habits. The combination of the human genome and the symbiotic microbial genome is called the hologenome. The hologenome especially its symbiotic microbial component drives human evolution as well as animal evolution. The evolutionary distance between species of wasp depends on the gut microflora. The human gut microflora regulates the endocrine, genetic and neuronal systems. Humans and primate evolution depends on endosymbiotic archaea and gut microflora. The endosymbiotic archaeal growth determines the racial differences between the matrilineal Harappan/Dravidian societies and the patriarchal Aryan society. The matrilineal Harappan/ Dravidian society was neanderthalic and had increased endosymbiotic archaeal growth. Endosymbiotic archaeal growth and neanderthalisation can lead to autoimmune disease, metabolic syndrome x, neurodegeneration, cancer, autism and schizophrenia. The Neanderthal gut flora and endosymbiotic archaea was determined by the non-vegetarian ketogenic high fat high protein diet consumed by them in the Eurasian steppes. The homo sapiens including the classical Aryan tribes and African ate a high fibre diet and had lower archaeal growth both endosymbiotic and gut. The dietary fibre intake determines the microbial diversity of the gut. The high fibre intake is associated with increased generation of short chain fatty acids- butyric acid by the gut flora. Butyrate is a HDAC inhibitor and leads to increased generation and incorporation of endogenous retroviral sequences. The high dietary fibre intake related increased HERV sequences leads to increased synaptic connectivity and a dominant frontal cortex as seen in homo sapien species. The neanderthalic species consume a ketogenic non-vegetarian high fat high protein low fibre diet. This leads to decreased generation of endogenous HERV sequences and reduced genomic flexibility in neanderthalic species. This produces smaller cerebral cortex and a dominant cerebellar cortex in the neanderthalic brain. The homo neanderthalic species by the low dietary fibre intake starve their microbial self. This leads to increased endosymbiotic and gut archaeal growth. The mucous membrane lining the gut becomes thinned out as the gut bacteria eats up the mucous lining of the gut. This results in leakage of endotoxin and archaea from the gut to the blood breaching the barrier and produces a chronic immunostimulatory inflammatory state which forms the basis of autoimmune disease, metabolic syndrome, neurodegeneration,

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oncogenic and psychiatric disorders. The Neanderthal species eat a low fibre diet and have a deficiency of microbiota accessed carbohydrate generating short chain fatty acid. There is a deficiency of butyrate generated in the gut from the dietary fibre which can produce suppression of the chronic inflammatory process. The Neanderthals have got the fermentation by-product deficiency syndrome. The induction of neanderthalic species depends on the low fibre intake induced high archaeal density endosymbiotic and the gut microflora. The homo sapiens species consume a high fibre diet generating large amounts of short chain fatty acid butyrate which inhibits endosymbiotic and gut archaeal growth. The microbial self of the homo sapien species is more diverse than that of the neanderthalic species and the archaeal population density is less. This results in a protection against chronic inflammation and the induction of diseases like autoimmune disease, metabolic syndrome, neurodegeneration, oncogenic and psychiatric disorders. The homo sapien species have a higher intake of dietary fibre contributing to around 40 g/day and a diverse microbial gut flora with less of archaeal population density. The butyrate generated from dietary fibre produces an immunosuppressive state. Thus the symbiotic microflora with less of archaeal density induces a homo sapien species. This can be demonstrated by experimental induction of evolution. A high fibre high MCT diet as well as antibiotics derived from higher plants and fecal microbiota transfer from sapien species can inhibit the Neanderthal metabolonomics and phenotype and induce the evolution of homo sapiens. A low fibre high fat high protein diet as well as fecal microbiota transfer from the Neanderthal species can produce Neanderthal metabolonomics and phenotype inducing the evolution of homo neanderthalis. Transfer of colonic microflora predominantly archaea and modulation of endosymbiotic archaea by a paleo diet and antibiotics from higher plants can lead to interconversion of human species between homo neanderthalis and homo sapiens. The hologenome especially the microbial flora endosymbiotic/gut drives human and animal evolution and can be experimentally induced. Symbiotic microflora drives evolution. Every animal, every human species, different communities, different races and different caste have their signature endosymbiotic and gut microflora which can be transmitted vertically and horizontally. Thus symbiosis drives human and animal evolution.

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This can be interpreted on the basis of Villarreal hypothesis of group identity and cooperativity of RNA collectives. Archaeal symbiosis in the gut and in the tissue spaces determines speciation of human beings as homo sapiens and homo neanderthalis. The endosymbiotic archaea can secrete RNA viroids and viruses and there is a viroid-archaeal

host relationship between the two. A dynamic state of virus lysis and persistence can occur in archaea suggesting that viral addiction can occur in archaea. The RNA viroids in the archaea coordinate their behavior by information exchange, modulation and innovation generating new sequence based content. This occurs due to a phenomenon of symbiosis in contrast to the concept of survival of the fittest. The generation of new RNA viroidal sequences is a result of practical competence of living agents to generate new sequences by symbiosis and sharing. This represents highly productive RNA viroidal quasi-species consortia for the evolution, conservation and plasticity of genomic environments. The behavioural motives of the RNA are single stem loop structures. They have self folding and group building capabilities depending upon functional needs. The evolution process depends upon what Villareal calls RNA stem loop consortia. The whole entity can function only if participatory groups of RNA viroids can get their function coordinated. There is competent denovo generation of new sequences by cooperative action and not by competition. These RNA viroidal group consortia can contribute to the host identity, group identity and group immunity. The term used for this is RNA viroidal sociological behavior. The RNA viroids can build groups that invade the archaea and compete as a group for limited resources such host genomes. A key behavioural motif is able to integrate a persistent life style into the archaeal colony with the addiction module forming competing viroidal groups that are counter balancing each other together with the archaeal/host immune system. This leads to creation of an identity for the archaeal colony and the homo neanderthalis host. Viroids can kill their host and also colonize their host without disease and protect the host from similar viruses and viroids. Together with lysis and protection we see a viroid colonized host that is both symbiotic and innovative acquiring new competent codes. Thus the viroid-host relationship is a pervasive, ancient force in the origin and evolution of life. Cumulative evolution at the level of RNA viroids is like a ratchet effect used for transmission of cultural memes. This learning accumulates so that every new generation must not repeat all innovative thoughts and techniques. Quasi-species of RNA viroids are cooperative and exclusive of other quasi-species. They have group recognition differentiating self-groups and non-self-groups allowing for quasi-species to promote the emergence of group identity. With group identity via counter related addiction modules two opposing components must be present and work coherently and define the group as a whole. Biological identity is constituted by dynamic interaction of cooperative groups. Virus addiction module is an essential strategy for existence of life in the virosphere. Viruses are transmissible and can persist in specific host population leading to a form of group immunity/ identity since identical but uncolonised host population remains susceptible to a killing action

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of lytic viruses. In this way we see that viruses are necessary providing opposing functions for addiction (persistence/protection and lytic/killing). Viroids can function as consortia, an essential interacting group and provide a mechanism from which consortial function could emerge in the origin of protobiotic life. Genetic parasites can act as a group (qs-c). But for this group to be coherent they must attain group identity and this is typically via an addiction strategy. Antiviral and proviral system in the archaea will themselves emerge in the host from virus derived information. The archaeal viruses themselves provide the critical function required for antiviral defense. The opposing functions are the basis of addiction modules. Thus the emergence of group identity becomes an essential and early event in the emergence of life. This is coherent to the basically group behavior of RNA viroids in archaea. This group selection and group identity are needed to create information coherence and network formation and to establish a system of communication- code competent interactions. This identity serves as information also for the ones that do not share this identity. This is the beginning of self/non-self-differentiating capability. In this way viroids promote the emergence of group identity in archaeal colonies and host humans. The archaeal colony identity depends upon the colonizing set of RNA viroids producing a coherent network that is inclusive opposing functions and favours the persistence of parasite derived new information. On the basis of population-based functions of RNA DNA can be considered as a habitat for consortia RNA. Thus RNA viroids of the archaea are involved in complex multicellular identity. This is called as the Gangen hypothesis by Villarreal. The Gangen describes the emergence of commonly shared code use, group membership and collective living function of RNA viroids. Communication is a code depended interaction and transmission of infectious code defines the origin of the virosphere. This issue refers to the idea of collective of RNA viroids with inherent toxic and antitoxic features should be able to transmit or communicate these agents and their features to a nearby competing population. It strongly favours the survival of RNA viroidal population with compatible addiction modules that will inhibit agent toxicity and allow persistence of new agents. This is thus the survival of the persistently colonized set which is an inherently symbiotic and consortial process. It also promotes increasing complexity and identity/immunity of the host collective via a new agent colonization, and stable addition. Thus the transmission of RNA agents attains both communication and recognition of group membership. In this way the emergence of the virosphere must had been an early event in the origin of life and group identity. Viruses and viroids are genetic parasites and the most abundant living entities on earth. The virosphere is a network of infectious genetic agents. Evolution, conservation and plasticity of genetic

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identities are the result of cooperative consortia of RNA viroids that are competent to communicate. Thus the archaeal viroidal consortia can symbiotically share and communicate producing new sequences and give an identity to the archaeal colony. The low fibre diet and extreme temperatures of the Eurasian steppes leads to archaeal multiplication and induction of the homo neanderthalis species. The archaeal colony's characteristics are determined by the cooperative consortia of RNA viroids in the archaea and the archaeal colony identity determines the homo neanderthalis identity. Thus the archaeal colonies with their quasi-species consortia of RNA viroids determine the homo neanderthalis identity. The new sequence generation by the RNA viroidal consortia's symbiotic sharing character contributes to the diversity in the behavior and creativity of the homo neanderthalis population. The archaeal RNA viruses and viroids and the archaeal colonies themselves protect the homo neanderthalis population from retroviral infections. Thus the homo neanderthalis population is retroviral resistant and the quasi-species consortia of archaea and archaeal viroids gives them a group identity as retroviral resistant. Thus the quasi-species consortia of archaea and RNA viroids give homo neanderthalis colonies their identity and idea of self. The homo neanderthalis is resistant to retroviral infection like the Australian aboriginals and the endogenous retroviral sequences in the Neanderthal genome are limited. This leads to lack of plasticity and dynamicity of the human genome and the cerebral cortex in ill-developed with a dominant impulsive cerebellar cortex in the homo neanderthalis population. This produces the impulsive creative surrealistic spiritual neanderthalic brain. As the extreme of temperature goes off and the Ice age ends the archaeal population density also comes down. This also can result from the consumption of a high fibre diet in the African continent. The high fibre diet digested by clostridial clusters in the colon promotes butyrate synthesis and butyrate will induce HDAC inhibition and expression of retroviral sequences in the primate genome. This leads to increase in endogenous retroviral sequences in the human genome, increasing genomic dynamicity and the evolution of complicated cerebral cortex dominant brain with its complex synaptic connectivity in the homo sapiens. This leads onto a logical, commonsensical, pragmatic and practical homo sapien brain. The homo sapiens due to lack of archaea and the RNA viroids are susceptible retroviral infection. Thus the archaeal colonies and RNA viroidal quasi-species consortia determine the evolution of the human species and the brain networks. Thus extremes of temperature, fibre intake, archaeal colony density, RNA viroidal quasi-species, group identity and retroviral resistance decides on the evolution of homo sapiens and homo neanderthalis as well as the brain networks. The present extremes of temperature and low fibre intake in civilized society can lead to increase in

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archaeal population densities and quasi-species RNA viroidal networks generating a new homo neanderthalis in a new neanderthalic anthropocene age as opposed to the present homo sapien anthropocene age. The archaeal population densities and quasi-species RNA viroidal networks determine homo sapien/homo neanderthalis species, racial, caste, community, national, sexual, metabolic, phenotypic, immune, genotypic neuronal, psychiatric, psychological and individual identity. The archaea secretes the trephone digoxin which can edit the RNA viroids and generate new sequences. Archaeal dipolar magnetite and porphyrins in the setting of digoxin induced membrane sodium potassium ATPase inhibition can produce a pumped phonon system mediated quantal perceptive state and quantal communication in the RNA viroidal symbiotic system generating new sequences by steroidal digoxin enzymatic editing action. This gives rise to archaeal RNA viroidal quasi-species symbiotic diversity and identity to species, race, caste, sex, culture, individual and national identity.

The roots of Western civilizational disease can be related to the starvation of the colonic microflora. The colonic microflora depends upon complex carbohydrates derived from dietary fibre. The processed food of high protein, fat and sugars is digested and absorbed in the stomach and small intestine. A very little of it reaches the colon and widespread use of antibiotics in medicine has produced mass extinction of the colonic microflora. The colonic microflora is extremely diverse and the diversity is lost. There are 100 trillion bacteria in the colon belonging to 1200 species. They regulate the immune system by inducing the T-regulatory cells. A high fibre diet contributes to colonic microbiota diversity. Interaction with farm animals like cows and dogs also contributes to the colonic microflora diversity. The typical Western diet of high fat, high protein and sugars decreases the colonic microbiota diversity and increase colonic/endosymbiotic archaea producing methanogenesis. The colonic archaea feed upon the mucous lining of the colon and produces leakage of archaea into the blood and tissue system producing endosymbiotic archaea. This results in a chronic inflammatory state. The high fibre diet of Africans, South Americans and Indians produces increased colonic microbiota diversity and increase in clostridial clusters generating SCFA in the gut. High fibre diet is protective against metabolic syndrome and diabetes mellitus. Metabolic syndrome is related to degeneration, cancer, neuropsychiatric illness and autoimmune disease. A high fibre diet of up to 40 g/day can be called as a gut diet. The colonic microflora especially the clostridial cluster digests the fibre generating short chain fatty acids which regulates immunity and metabolism. High fibre diet increases the colonic mucus secretion and the thickness of the mucus lining. A high fibre diet produces

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increase in clostridial clusters and mucous secretion. This produces a strong gut blood barrier and prevents metabolic endotoxemia which produces a chronic inflammatory response. High dietary fibre intake and the diversity of the colonic microflora with prominent SCFA producing clostridial clusters are interrelated. The clostridial clusters metabolise the complex carbohydrate in dietary fibre to short chain fatty acids butyrate, propionate and acetate. They increase the T-regulatory function. A high fibre diet increases the bacteroides and reduces the firmecutes of the colonic microflora. A high fibre diet is associated with a low body-mass index. A low fibre diet produces increase in colonic archaeal growth as well as endosymbiotic tissue and blood archaea. This produces more of methanogenesis rather than short chain fatty acid synthesis contributing to immune activation. A low fibre diet is associated a high body-mass index and chronic systemic inflammation. Germ-free mice show cardiac, pulmonary and liver atrophy. Gut microflora is required for the generation of organ systems. The gut microflora is also required for generation of T-regulatory cells. High fibre intake produces more colonic microbiota diversity and increase in clostridial clusters and fermentation by products like butyrate which suppresses inflammation and increases T-regulatory cells. A low fibre diet produces increase in archaeal growth, methanogenesis, destruction of the mucus lining and leakage of the colonic archaea producing endosymbiotic tissue and blood archaea. This produces an immune hyperreactivity contributing to the modern plagues of civilization- metabolic syndrome, schizophrenia, autism, cancer, autoimmunity and degenerations. The gut microbiota drives human evolution. The humans do not host the gut microbiota but the gut microbiota host us. The human system forms an elaborate culture laboratory for the propagation and survival of the microbiota. The human system is induced by the microbiota for their survival and growth. The human system exists for the microbiota and not the other way round. The same mechanism holds good in plant systems. Plant started the colonized earth as they started symbiosing with bacteria in the roots systems which can derive nutrients from the soil. Human beings form a mobile culture laboratory for the more effective propagation and survival of the microbiota. The microbiota induces the formation of specialized immune cells called innate lymphoid cells. The innate lymphoid cells will direct the lymphocytes not to attack the beneficial bacteria. Thus the endosymbiotic archaea and the gut archaea induce human, primate and animal evolution to generate structures for them to survive and propagate. The source of endosymbiotic archaea, the third element of life is the colonic archaea that leaks into the tissue spaces and blood systems due to breach in the gut blood barrier. The increase in colonic archaea is due to the starvation of the gut microbiota consequent to a low fibre diet. This results in increase in

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colonic archaeal growth and destruction of clostridial clusters and bacteroides. The increase colonic archaeal growth in the presence of gut starvation due to low fibre diet eats up the mucus lining and produces breakages in the gut blood barrier. The colonic archaea enters the blood stream and produces endosymbiosis generating endosymbiotic archaea and various new organelle- fructosoids, steroidelle, vitaminocyte, viroidelle, neurotransminoid, porphyrinoids and glycosaminoglycoids.

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CHAPTER 5

PANDEMICS DERIVED FROM EXTRATERRESTRIAL SUPERORGANISM CAN SHAPE HUMAN SOCIETY - THE HUMAN ENDOSYMBIOTIC ARCHAEAL RNA VIROID QUASI-SPECIES CONSORTIA, NEW VIRUSES AND SOCIO-ECONOMIC-POLITICAL HISTORY- ALIEN VISITATION AND SOCIETY

Climate change and archaeal symbiosis as well as covid 19 infection of the brain can produce cerebral cortical atrophy and cerebellar dominance. This leads to neanderthalisation of the brain. This produces metabolic porphyria and quantal perception. The viral epidemics especially the corona virus epidemics owing to its high infectivity rate can affect human behaviour and society. The viral infection leads to self-isolation and splitting up of society into watertight compartments with little communication between small groups. This leads on to the society with autistic behavioural phenotypes. It leads to a culture of solitude and hermits. The viral epidemics especially cornona viral epidemics have a predilection for the male population leading to widespread extermination of the male population and a female dominant matrilineal Neanderthal society with predominantly asexual behaviour. The world becomes an autistic asexual tribe of solitudinal hermits. It leads to a development of authoritarian governmental structures and a society dominated by greed, loneliness and selfishness. The human society becomes increasingly depended on robotics and internet and turns into man-machine hybrids.

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The viruses spread genes across bacteria humans and other cells. According to Lynn Margulis we are our viruses. Viruses merge with the cellular genome and reemerge from them. They create successful genetic patterns that underlie living things. RNA virus can exist as quasi-species consortia which can create new RNA viruses and codes by symbiosis. The archaeal RNA quasi-species consortia underlie human and species identity. The archaeal digoxin can edit the RNA producing new codes to suit environmental conditions for the benefit of the quasi-species consortia.

The bacteriophages are examples of this concept. The bacteria trade genes frantically by three processes- transformation via uptake of DNA, sexual conjugation and bacteriophage induced transduction. The viruses are mobile genetic elements and can carry genes from one person to another. The RNA viruses are dipolar and in the setting of digoxin induced membrane sodium potassium ATPase inhibition can create a pumped phonon system mediated quantal perception. The archaeal RNA viroid quasi-species consortia can thus mediate quantal perception

and function as a symbiotic colony and communicate with the outside world. To suit survival in changing environmental conditions new RNA viroids can be added to the quasi-species consortia by archaeal DNA induced editing. The viral cycles can be lytic cycles or lysogenic cycles. Viral infections convert the human body to a viral organ.

Many filo viruses like Marburg virus and ebola virus are integral part of the human genome. The human genome also contains retroviruses and borna viruses as integral parts. Similar integration non-retroviruses have been described for RSV, LCMV, VSM virus. The integration is done by HERV reverse transcriptase and integrase. The viruses can cross the inter-species barrier. The algal virus Acanthocystis tortacea chlorella can infect mamallian cells. It has been detected in human throat swabs and the algal virus can replicate in human cells. Human neuronal cells when infected by the algal virus produces changes in memory, visuo-spatial process and attention affecting cognitive function.

Viruses are mechanisms of gene transfer. This is explained by viruses given to the caterpillar by the wasp. The barco virus protects the caterpillar against particular viruses. The viruses infecting humans contains sequences with human DNA and bacterial DNA. The viruses thus function as mechanism for interhuman and interspecies gene transfer. Just as the viruses can infect cells the bacteria can conjugate with human cells. Bacterial conjugation and DNA transfer with human cells have been described. Photosynthetic genes have been sequenced in phage virus. Bacteria can steal genes and develop resistance. The gene for alpha 2 macroglobulin is seen in certain bacteria and provides a mechanism for bacterial resistance.

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The human gut is a symbiotic system between bacteria, viruses and phages. Gut bacterial phages codes for genes of amino acid synthesis and carbohydrate metabolism. Ecosystem of human cells gut bacteria, viruses and phages is a continuous gene transfer mechanism and can interact with other ecosystems. The pathogens can contribute genes to the host. The archaeal RNA viroids can contribute genes to the host by conversion to DNA using HERV reverse transcriptase. Unrelated RNA and DNA virus can re-combine. The archaeal RNA viroids and its corresponding DNA can re-combine with unrelated RNA and DNA viruses. The bacteriophages can shuttle genes between different ecosystems. The archaeal RNA viroids served the same purpose. There is transkingdom crosstalk of small RNA molecules. Transkingdom sRNA silencing of the human RNA by archaeal RNA viroids can modulate the human system. The crosskingdom RNA silencing is important in crosskingdom communication in ecosystem.

The viral pandemics have thus contributed to human evolution. Virus and bacterial infection homogenized human population by gene transfer. The archaeal and its RNA viroids

form the lynchpin of the mechanism of gene transfer. This leads onto globalisation of speech, thought and culture by viral epidemics and related gene transfer. Thus viral epidemics help in globalization of human culture. Human viral epidemics are necessary prerequisite for the evolution of human culture. The viral epidemics homogenize human population forming groups of caste, religion, nationalities and culture. The archaeal RNA viroidal quasi-species consortia underlie this mechanism of evolution. Thus viral diseases contribute to culture, behavior, diet, eating habits and sexuality. Thus virus mediated gene transfer is important human sociological mechanism. The archaeal RNA viroidal quasi-species consortia and its recombination with unrelated RNA and DNA viruses and its integration into the human genome by HERV reverse transcriptase forms the basis of this phenomenon. Retroviral infections have contributed to the genesis of schizophrenia, cortical function and evolution of consciousness. Borna virus infections also contribute to schizophrenia. Viral pandemics thus contribute to population identity and differences. This can also lead on to generation of new viruses.

Diet can modulate archaeal RNA viroidal function. The high fibre diet will suppress archaeal growth and RNA viroidal growth. A low fibre diet will increase archaeal growth and RNA viroidal growth. Thus the RNA viroidal quasi-species consortia can be modulated by diet. Viruses are beneficial agents and only 1 percentage of the viruses are pathogenic. Most of the viruses co-exist as commensals. The bacteria and fungal kingdoms contain bacteriophages and fungal phages. They can recombine with archaeal RNA viroids and their corresponding DNA producing new RNA and DNA viruses which can get integrated into the genome as well as get secreted into the environment. This forms a common gene pool.

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The archaea are extremophiles and can exist in the intergalactic space and meteroidal impacts can transfer the archaea in the intergalactic space to earth. The archaeal RNA viroids thus supply a continuous source of new genetic codes to earth. The bacterial infections especially those due to streptococcus and its phages can produce epidemic OCD, echolalia and ecopraxia contributing to a disciplined society and the evolution of the hereditary system of kingship. This can be due to the streptococcus induced epidemic OCD frontal lobe syndrome. The bacteriophages from the streptococcus could have recombined with the archaeal RNA viroids and got integrated into the human genome. The fungal infections could have contributed to the next phase of evolution. Infections with claviceps purpura can transfer LSD genes and dopamine genes to humans producing the dopaminergic epoch in society. The fungal phages would have recombined with archaeal RNA viroids and got integrated into the human genome. This could have contributed to ideas of equality, fraternity, liberty and socialism which are all products of the French revolution. During this period of time there was an epidemic of fungal

infection in Rye in Europe. The next phase of global epidemics occurred with H1N5 infection or the Spanish flu epidemic. This resulted in a locked-in state and a frozen society leading onto the rise of dictatorship, fascism, the Nazis and the Communists. The next stage in which we live can be called the age of anarchy with its globalization, terrorism, rogue capitalism, sexual anarchy and religious fundamentalism. This corresponds with the recurrent epidemics of RNA viral infections- H1N1, retroviral, SARS, ebola, dengue and hemorrhagic fever. The genomic integration of these RNA viruses, fungal phages, bacterial phages would have changed the human genome at this different point in history. Thus virus induced gene transfer can modulate the brain, culture, sociology and behaviour.

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CHAPTER 6

THE VIRAL PANDEMICS DERIVED FROM EXTRATERRESTRIAL BIOLOGICAL QUANTAL COMPUTING CLOUDS CAN MODUATE HUMAN CULTURE AND LANGUAGE - METAPHORIC SEXUAL MEMES, ARCHAEAL RNA VIROIDAL QUASI-SPECIES CONSORTIA AND THE ORIGIN OF HUMAN LANGUAGES AND CULTURE - ALIEN VISITATION AND CIVILIZATIONAL CHANGE

The human brain can be considered as a modified archaeaon colony network. The archaeaon are eternal and can last for billions of years. The human brain is basically an information storage system. The archaeaon has got dipolar magnetite and porphyrins and can function as quantal computer. The archaeal colony with its dipolar magnetite and porphyrin in the setting of archaeal digoxin induced membrane sodium potassium ATPase inhibition can function as a pumped phonon system mediating quantal perception. The archaeaon in the brain is capable of information storage at a point in time and space. The experiences and information stored in the archaeaon is immortal and eternal. The archaeaon can have a wave particle existence and can exist in multiple quantal possible states and can inhabit multiple quantal multiverses. The interaction between information stored in quantal computers in multiple different archaeaon systems all over the universe by the quantal interactions results in eternal existence of information in quantal multiverses. The information in the quantal multiverses can have a particulate existence creating a newer mode by quantal interactions between information stored at multiple points of time. This creates the particulate mythic world of human existence. These are what are called as Samsaras. The mind is uploaded into information in the neuronal archaeal colony network and its quantal computers. The information stored in the archaeal colony network mediated quantal state is eternal and can be considered as a digital version of the brain, a mind downloading technique or whole brain emulation. The archaeal colony network stores the human experiences in an eternal manner and can contribute to biological reincarnation.

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Memes are building blocks of mind. They are also the building blocks of culture. The memes make up language and religion. The origin of speech can also be related to archaeal RNA viroidal quasi-species consortia. Speech origin can be compared to an epidemic la tourette's disease which consists of vocal tics, motor tics, coprolalia and obsessive compulsive disorder. It is due to post streptococcal anti glycolytic anti brain antibodies

affecting the brain. The archaea and RNA viroidal modulation by extraterrestrial and terrestrial contacts with the brain and symbiosis can produce vocal tics and coprolalic words and phrases akin to la tourette's disease producing a primitive form of speech. The motor tics would have evolved to artistic dance and drama forms. The primitive vocal and motor tics which would have been the substratum for civilized speech would have originated as a tic syndrome consequent to extraterrestrial and terrestrial archaeal and RNA viroidal infection and symbiosis. The initial vocal and motor tics would primarily have been related to sexual content and could have contributed to a coprolalic form of speech. The archaeal symbiosis in homo sapien population would have produced a dominant neanderthalic population and the subservient lower class and caste homo sapien population would have been labeled and described the synonyms of this coprolalic speech and vocal tic form of spontaneous speech. The RNA viroidal quasi-species consortia is capable of being constantly edited by archaeal digoxin contributing to widespread diversity of the RNA viroidal quasi-species consortia contributing to species identity with regard to speech. The RNA viroids are capable of transynaptic transport and can function as neurotransmitters modulating brain function. The RNA viroidal quasi-species consortia are infective and can be transmitted within a defined population giving characteristic identity to the vocal and motor tics and coprolalic speech. This would have given rise to different languages which behave like mutated viral populations. The different family of languages corresponds with the diversity of archaeal viroidal RNA quasi-species consortia edited by archaeal digoxin. This form of coprolalic speech and vocal/motor tics and gestures with predominant sexual content are subcortical in origin and localized to the basal ganglia and cerebellum. Cerebellar cognitive affective disorders give rise to impulsivity and tics and coprolalic speech are impulsive and are out of cortical control. Swear and obscene words persist even in the presence of global aphasia and destruction of the cerebral cortex. The coprolalic speech and corresponding vocal and motor tics can be converted to signs and ideograms with sexual contents due to motor tics or cerebellar dysfunction producing appendicular ataxia. The ideograms meanings are changed when multiple ideograms are combined. This gives rise to the origin of written language and alphabets of all languages as are exemplified by the Harappan script. Languages are a consequence of archaeal RNA viroidal infection and symbiosis of the brain and spread in the community producing endemic vocal tics syndromes of different characteristics for each group of population. This phenomenon can also be called as viro-linguistics or neuro-linguistics. The obscene coprolalic language and tics with sexual imageries would have evolved into the primitive sort of religion. Swear words with obscene content induce greater

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skin response to electric stimulation. Swear words also have a cathartic effect as noticed by the time duration to which the person using those words can immerse his limbs in subzero temperature. Coprolalic languages and tics give a cathartic effect or transcendence. Swear words or coprolalic words are the most common words used in English language. They are used for a specific purpose or as emotional intensifiers. The obscene words are coprolalic language are localized to the cerebellum and its limbic connections. Cerebellum is the site for counting, formalities, rituals, lyrics, magic and dance forms. Thus the coprolalic language and obscene tics would have evolved into a form of primitive religion which gave communities a sort of transcendence. This can be noted in the worship of Shiva and Shakti and similar cults in other parts of the world. The concept of Shiva and Shakti is the oldest concept of God and can be traced to the Harappan civilization. Thus language and religion evolved out of archaeal RNA viroidal quasi-species consortia infection of the brain and a cerebellar cognitive affective disorder. The RNA viroidal quasi-species consortia are capable of immense diversity owing to constant editing by archaeal digoxin. The RNA viroids are capable of transynaptic transports and sculpt synaptic connectivity networks for each domain of language and religious function which are capable of dynamic changes from second to seconds. They are localized in the sub-cortical cerebellar networks and are automatic, impulsive, primitive, sexual and sensual. They can be considered as memes or the unit of cultural transmission. Memes are constituted by archaeal RNA viroidal quasi-species consortia with each different QS consortia constituting one meme which is transmissible in the community by infection and gives identity to the community. The language and religion are infectious and can be considered as equivalent to epidemics and endemics of viral infections which are susceptible to constant changes by mutations. Viral tracking procedures are now used to track the origin of languages.

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Language evolution has been related by different authors to cries of pain and delight due to vocal and motor tics as comparable with the non-linguistic vocal tics of la tourette's syndrome. TS is due to dopamine receptor supersensitivity. The archaeal shikimic acid pathway produces dopamine excess contributing to vocal and motor tics as well as coprolalia the basis of language, music, religion, dance and painting. Motor tics and appendicular ataxia would have contributed to abstract art of painting and dance. The archaeal and RNA viroidal infection re-wires the brain, changing synaptic connectivity and species specific language and art forms arises out of horizontal genetic transfer of RNA viroidal quasi-species consortia generated from archaea and susceptible to archaeal digoxin editing giving it widespread

diversity. Thus viroidal vectors quasi-species consortia which are infective can give rise to cultural memes which are transmissible and give rise to language, music, dance, literature, painting, religion, spirituality and everything which is sublime to humanity. The archaeal RNA viroidal quasi-species consortia modulated brain synaptic networks leads to cerebellar dominance and shape the communities and individuals political, social and economic views. Cerebellar dominance due to archaeal RNA viroidal quasi-species consortia leads to impulsivity, altruism, extrasensory quantal perception and group communication, dominance of group over individual and feelings of contact with the collective unconscious. This gives rise to ideological patterns in the brain of social justice, altruism, primitive communism and spirituality. These patterns are consequence of archaeal RNA viroidal quasi-species consortial diversity and symbiosis producing a cerebellar cognitive affective disorder and cortical dysfunction which basically contributes to a neanderthalic brain. The homo sapien brain has less of archaeal symbiosis and RNA viroidal quasi-species consortia and structures synaptic networks coding for selfishness, civil society, secular society, capitalism, individuality and less of spirituality. The cerebellar cognitive affective disorder consequent to archaeal RNA viroidal quasi-species consortia contributes to spirituality, altruism and can generate a community of leaders who can guide and set the community on course. This leads us to the origin of the archaea and RNA viroidal quasi-species consortia. The intergalactic space contains a network of porphyrions and embedded archaeal and RNA viroidal giant colony functioning as molecular quantum computing cloud in the intergalactic space. The archaeal magnetite contributes to the intergalactic magnetic field and the condensation of the cloud leads to the formation of star system and galaxies. The archaea and RNA viroidal quasi-species consortia are derived from the interstellar massive porphyrion and archaeal quantal computing cloud which functions as a massive God-like extraterrestrial intelligence. This archaeal quantum computing cloud in the intergalactic space gets transferred to earth by meteoric impacts and produces archaeal symbiosis on primates and homo sapiens producing changes in culture generating language, art, painting, dance, music, literature and spirituality. This fits into the Freudian hypothesis of a sexual substratum for unconsciousness. Freud based unconscious desires on the basis of sexual instincts and recent mind as a combination of reason, will and passion. Freud regarded the problem from inside the individual that is for the world of human sexual instincts and constructed an irrational world of the mind. The basis of life is replicate. Replication depends upon sex and therefore sexual instincts form the basis of language, culture and religion. This can be called as a form of esoteric spirituality. The la tourette's syndrome with its vocal and motor tics with sexual motives consequent to

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archaeal RNA viroidal symbiosis can lead to the evolution of abstract painting, dance, transcendent spirituality and language arising from sexual swear words. Thus archaeal RNA viroidal induced epidemic la tourette's syndrome and sexual vocal and motor tics would have formed sexual memes with a genetic diverse RNA viroidal quasi-species consortial counterpart diversified by archaeal digoxin mediated RNA editing. Thus the Freudian psychology of sexual instincts and unconsciousness can lead to a sexuality mediated transcendence going on to the realm of Jungian mysticism.

The ancient societies have examples as evidence of this in the worship of Shiva and Shakti as well as yoni and linga. Ancient Hindu religion had sexual practices integrated as part of worship. Swear words and obscene words were also part of worship in certain temples in the subcontinent. This points to obscene vocal and motor tics as the origin of language, dance, music and spirituality due to archaeal and RNA viroidal quasi-species consortia infection and symbiosis of extraterrestrial origin due to periodic meteoric impacts. They generate the units of cultural transmission, memes as described by Dawkins. Memes are RNA viroidal quasi-species consortia edited and diversified by archaeal digoxin and structured onto synaptic networks which can also be infective in a population. Their origin is extraterrestrial and a part of the intergalactic molecular porphyrion and archaeal quantum computing network which gives rise star systems and planets also.

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The archaeal RNA viroidal quasi-species consortia can function as neurotransmitter having transynaptic transport and can modulate synaptic connectivity. The archaeal RNA viroidal quasi-species consortia are subjected to editing by archaeal digoxin and generate new RNA viroidal quasi-species consortia depending upon informational inputs in the outside world. This creates states of mind or samsaras. They can be compared to mutating viral infection. One state of mind gives rise to another state of mind and one set of synaptic RNA viroidal quasi-species consortia gives rise to another synaptic RNA viroidal quasi-species consortia by digoxin mediated editing. The archaeal magnetite is capable of quantal perception of low level electromagnetic fields from fellow human being's brain and this can inhibit membrane sodium potassium ATPase activity and modulate digoxin synthesis altering the nature of the RNA viroidal quasi-species consortia. These RNA viroidal quasi-species consortia can get transcribed to the DNA by reverse transcriptase and get integrated into the neuronal genome producing dynamicity of the genome. Thus the archaeal magnetite can modulate interbrain informational transfer by quantal perception of low level EMF producing

changes in transynaptic networks of RNA viroidal quasi-species consortia and neuronal genomic structure by the integration of viroidal sequences into it. The intergalactic magnetic field of the archaeal and RNA viroidal molecular quantal computing cloud can also be perceived by neuronal archaeal magnetite modulating the transynaptic network of RNA viroidal quasi-species consortia and its integration into the neuronal genome altering it. The Samsaras are states of mind and are momentary and there is no permanent state of mind. The states of mind during the existence of a personality end with the mortality of the personality, but the totality of its actions creates a state of mind or Samsara independent of the previous personality. Thus there is no continuous consciousness in existence, only different states of mind which gives rise to another set of independent states of mind depending on the informational interactions of the states of mind or karma. We are not only creating the world but we are also creating ourselves, our ego, our self-consciousness and personality in a continuous manner. From moment to moment our bodies sensation conceptualization, ideas and beliefs work together to create an illusion of consciousness. Each of us is a being in different world will create out of our thought and perception. We create the world and create ourselves. There is no creator or creation; only the collective unconscious.

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The religions of the world can be divided into cerebral cortical religions which impose a strict code of civil conduct. These are all organized religions with very little magic and spirituality in their functioning with examples of the Semitic religions of Islam and modern Christianity. Such religions are logical and civil religions and are capable of inhuman behavior in the form of crusades, inquisition, Islamic terrorism, the world wars and nuclear bomb. These religions impose a strict code of conduct and sexual conduct and thinking are taboo. The opposite is the cerebellar religions which include Hinduism, Zen-Buddhism, Sufism, Gnostic Christianity and the Kaballah. These religions are reflections of archaeal and RNA viroidal transynaptic network and quantal perception of low level electromagnetic fields producing cerebral cortical atrophy and cerebellar dominance. This leads onto impulsive behaviour, magical experiences, extrasensory perceptions, out of the body experience, sexual transcendence and spiritual experiences. These are all religions that can be localized to lower areas of the brain the cerebellar cortex and are reflections of the cerebellar cognitive affective disorder. The parallel between spirituality and sexual instincts is reflected in the Yogic terminology of Kundalini where electric current from the chakras in the base of the cord rise upto the pineal gland producing a sense of transcendence. Thus there is not much difference between a spiritual experience and sexual experience. This is reflected in

Hindu practices of Tantra. These cerebellar religions are humane religions where there is extrasensory quantal perception and feeling of the collective unconscious. The human senses are celebrated and humanity triumphs. Thus the human spiritual experience and culture and language have an underlying basis in human sexual experience and the Freudian sexual psychology forms the basis of Jungian mysticism. Life is indicated by replicators; and replicators means sexual conduct and sexual conduct leads to transcendence, spirituality, language evolution and evolution of culture.

Symbiosis by microorganisms especially archaea drives the evolution of the species. In such a case symbiosis can be induced by transfer of microflora symbionts and evolution induced. Endosymbiosis by archaea as well as archaeal symbionts in the gut can modulate the genotype, the phenotype, the social class and the racial group of the individual. The symbiotic archaea can have horizontal and vertical transmission. Endosymbiotic archaeal growth leads to neanderthalisation of the species. The neanderthalised species is matrilineal society and includes the Dravidians, the Celts, the Basques and the Berbers. The inhibition of the endosymbiotic archaeal growth leads to evolution of the homo sapiens. This includes the Africans, Aryan invaders of North India and the Aryan derived European population. Symbiosis mediated evolution depends on the gut flora and the diet. This has been demonstrated in the drosophila pseudoobscura. The drosophila mates only with other individuals eating the same diet. When the drosophila gut microflora is altered by feeding antibiotics they mate with other individuals eating different diets. The diet consumed by the drosophila regulates its gut microflora and mating habits. The combination of the human genome and the symbiotic microbial genome is called the hologenome. The hologenome especially its symbiotic microbial component drives human evolution as well as animal evolution. The evolutionary distance between species of wasp depends on the gut microflora. The human gut microflora regulates the endocrine, genetic and neuronal systems. Humans and primate evolution depends on endosymbiotic archaea and gut microflora. The endosymbiotic archaeal growth determines the racial differences between the matrilineal Harappan/Dravidian societies and the patriarchal Aryan society. The matrilineal Harappan/ Dravidian society was neanderthalic and had increased endosymbiotic archaeal growth. Endosymbiotic archaeal growth and neanderthalisation can lead to autoimmune disease, metabolic syndrome X, neurodegeneration, cancer, autism and schizophrenia. The Neanderthal gut flora and endosymbiotic archaea was determined by the non vegetarian ketogenic high fat high protein diet consumed by them in the Eurasian steppes. The homo

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sapiens including the classical Aryan tribes and African ate a high fibre diet and had lower archaeal growth both endosymbiotic and gut. The dietary fibre intake determines the microbial diversity of the gut. The high fibre intake is associated with increased generation of short chain fatty acids- butyric acid by the gut flora. Butyrate is a HDAC inhibitor and leads to increased generation and incorporation of endogenous retroviral sequences. The high dietary fibre intake related increased HERV sequences leads to increased synaptic connectivity and a dominant frontal cortex as seen in homo sapien species. The neanderthalic species consume a ketogenic non vegetarian high fat high protein low fibre diet. This leads to decreased generation of endogenous HERV sequences and reduced genomic flexibility in neanderthalic species. This produces smaller cerebral cortex and a dominant cerebellar cortex in the neanderthalic brain. The homo neanderthalic species by the low dietary fibre intake starve their microbial self. This leads to increased endosymbiotic and gut archaeal growth. The mucous membrane lining the gut becomes thinned out as the gut bacteria eats up the mucous lining of the gut. This results in leakage of endotoxin and archaea from the gut to the blood breaching the barrier and produces a chronic immunostimulatory inflammatory state which forms the basis of autoimmune disease, metabolic syndrome, neurodegeneration, oncogenic and psychiatric disorders. The Neanderthal species eat a low fibre diet and have a deficiency of microbiota accessed carbohydrate generating short chain fatty acid. There is a deficiency of butyrate generated in the gut from the dietary fibre which can produce suppression of the chronic inflammatory process. The Neanderthals have got the fermentation by-product deficiency syndrome. The induction of neanderthalic species depends on the low fibre intake induced high archaeal density endosymbiotic and the gut microflora. The homo sapiens species consume a high fibre diet generating large amounts of short chain fatty acid butyrate which inhibits endosymbiotic and gut archaeal growth. The microbial self of the homo sapien species is more diverse than that of the neanderthalic species and the archaeal population density is less. This results in a protection against chronic inflammation and the induction of diseases like autoimmune disease, metabolic syndrome, neurodegeneration, oncogenic and psychiatric disorders. The homo sapien species have a higher intake of dietary fibre contributing to around 40 g/day and a diverse microbial gut flora with less of archaeal population density. The butyrate generated from dietary fibre produces an immunosuppressive state. Thus the symbiotic microflora with less of archaeal density induces a homo sapien species. This can be demonstrated by experimental induction of evolution. A high fibre high MCT diet as well as antibiotics derived from higher plants and fecal microbiota transfer from sapien species can inhibit the Neanderthal metabolonomics and

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phenotype and induce the evolution of homo sapiens. A low fibre high fat high protein diet as well as fecal microbiota transfer from the Neanderthal species can produce Neanderthal metabolonomics and phenotype inducing the evolution of homo neanderthalis. Transfer of colonic microflora predominantly archaea and modulation of endosymbiotic archaea by a paleo diet and antibiotics from higher plants can lead to interconversion of human species between homo neanderthalis and homo sapiens. The hologenome especially the microbial flora endosymbiotic/gut drives human and animal evolution and can be experimentally induced. Symbiotic microflora drives evolution. Every animal, every human species, different communities, different races and different caste have their signature endosymbiotic and gut microflora which can be transmitted vertically and horizontally. Thus symbiosis drives human and animal evolution.

This can be interpreted on the basis of Villarreal hypothesis of group identity and cooperativity of RNA collectives. Archaeal symbiosis in the gut and in the tissue spaces determines speciation of human beings as homo sapiens and homo neanderthalis. The endosymbiotic archaea can secrete RNA viroids and viruses and there is a viroid-archaeal host relationship between the two. A dynamic state of virus lysis and persistence can occur in archaea suggesting that viral addiction can occur in archaea. The RNA viroids in the archaea coordinate their behaviour by information exchange, modulation and innovation generating new sequence based content. This occurs due to a phenomenon of symbiosis in contrast to the concept of survival of the fittest. The generation of new RNA viroidal sequences is a result of practical competence of living agents to generate new sequences by symbiosis and sharing. This represents highly productive RNA viroidal quasi-species consortia for the evolution, conservation and plasticity of genomic environments. The behavioural motives of the RNA are single stem loop structures. They have self folding and group building capabilities depending upon functional needs. The evolution process depends upon what Villareal calls RNA stem loop consortia. The whole entity can function only if participatory groups of RNA viroids can get their function coordinated. There is competent denovo generation of new sequences by cooperative action and not by competition. These RNA viroidal group consortia can contribute to the host identity, group identity and group immunity. The term used for this is RNA viroidal sociological behavior. The RNA viroids can build groups that invade the archaea and compete as a group for limited resources such host genomes. A key behavioural motif is able to integrate a persistent life style into the archaeal colony with the addiction module forming competing viroidal groups that are counter balancing each other together

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with the archaeal/host immune system. This leads to creation of an identity for the archaeal colony and the homo neanderthalis host. Viroids can kill their host and also colonize their host without disease and protect the host from similar viruses and viroids. Together with lysis and protection we see a viroid colonized host that is both symbiotic and innovative acquiring new competent codes. Thus the viroid-host relationship is a pervasive, ancient force in the origin and evolution of life. Cumulative evolution at the level of RNA viroids is like a ratchet effect used for transmission of cultural memes. This learning accumulates so that every new generation must not repeat all innovative thoughts and techniques. Quasi-species of RNA viroids are cooperative and exclusive of other quasi-species. They have group recognition differentiating self-groups and non-self-groups allowing for quasi-species to promote the emergence of group identity. With group identity via counter related addiction modules two opposing components must be present and work coherently and define the group as a whole. Biological identity is constituted by dynamic interaction of cooperative groups. Virus addiction module is an essential strategy for existence of life in the virosphere. Viruses are transmissible and can persist in specific host population leading to a form of group immunity/ identity since identical but uncolonized host population remains susceptible to a killing action of lytic viruses. In this way we see that viruses are necessary providing opposing functions for addiction (persistence/protection and lytic/killing). Viroids can function as consortia, an essential interacting group and provide a mechanism from which consortial function could emerge in the origin of protobiotic life. Genetic parasites can act as a group (qs-c). But for this group to be coherent they must attain group identity and this is typically via an addiction strategy. Antiviral and proviral system in the archaea will themselves emerge in the host from virus derived information. The archaeal viruses themselves provide the critical function required for antiviral defence. The opposing functions are the basis of addiction modules. Thus the emergence of group identity becomes an essential and early event in the emergence of life. This is coherent to the basically group behavior of RNA viroids in archaea. This group selection and group identity are needed to create information coherence and network formation and to establish a system of communication- code competent interactions. This identity serves as information also for the ones that do not share this identity. This is the beginning of self/non-self differentiating capability. In this way viroids promote the emergence of group identity in archaeal colonies and host humans. The archaeal colony identity depends upon the colonizing set of RNA viroids producing a coherent network that is inclusive opposing functions and favours the persistence of parasite derived new information. On the basis of population-based functions of RNA DNA can be considered as a habitat for

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consortia RNA. Thus RNA viroids of the archaea are involved in complex multicellular identity. This is called as the Gangen hypothesis by Villarreal. The Gangen describes the emergence of commonly shared code use, group membership and collective living function of RNA viroids. Communication is a code depended interaction and transmission of infectious code defines the origin of the virosphere. This issue refers to the idea of collective of RNA viroids with inherent toxic and antitoxic features should be able to transmit or communicate these agents and their features to a nearby competing population. It strongly favours the survival of RNA viroidal population with compatible addiction modules that will inhibit agent toxicity and allow persistence of new agents. This is thus the survival of the persistently colonized set which is an inherently symbiotic and consortial process. It also promotes increasing complexity and identity/immunity of the host collective via a new agent colonization, and stable addition. Thus the transmission of RNA agents attains both communication and recognition of group membership. In this way the emergence of the virosphere must had been an early event in the origin of life and group identity. Viruses and viroids are genetic parasites and the most abundant living entities on earth. The virosphere is a network of infectious genetic agents. Evolution, conservation and plasticity of genetic identities are the result of cooperative consortia of RNA viroids that are competent to communicate. Thus the archaeal viroidal consortia can symbiotically share and communicate producing new sequences and give an identity to the archaeal colony. The low fibre diet and extreme temperatures of the Eurasian steppes leads to archaeal multiplication and induction of the homo neanderthalis species. The archaeal colony's characteristics are determined by the cooperative consortia of RNA viroids in the archaea and the archaeal colony identity determines the homo neanderthalis identity. Thus the archaeal colonies with their quasi-species consortia of RNA viroids determine the homo neanderthalis identity. The new sequence generation by the RNA viroidal consortia's symbiotic sharing character contributes to the diversity in the behavior and creativity of the homo neanderthalis population. The archaeal RNA viruses and viroids and the archaeal colonies themselves protect the homo neanderthalis population from retroviral infections. Thus the homo neanderthalis population is retroviral resistant and the quasi-species consortia of archaea and archaeal viroids gives them a group identity as retroviral resistant. Thus the quasi-species consortia of archaea and RNA viroids give homo neanderthalis colonies their identity and idea of self. The homo neanderthalis is resistant to retroviral infection like the Australian aboriginals and the endogenous retroviral sequences in the Neanderthal genome are limited. This leads to lack of plasticity and dynamicity of the human genome and the cerebral cortex in ill-developed with

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a dominant impulsive cerebellar cortex in the homo neanderthalis population. This produces the impulsive creative surrealistic spiritual neanderthalic brain. As the extreme of temperature goes off and the ice age ends the archaeal population density also comes down. This also can result from the consumption of a high fibre diet in the African continent. The high fibre diet digested by clostridial clusters in the colon promotes butyrate synthesis and butyrate will induce HDAC inhibition and expression of retroviral sequences in the primate genome. This leads to increase in endogenous retroviral sequences in the human genome, increasing genomic dynamicity and the evolution of complicated cerebral cortex dominant brain with its complex synaptic connectivity in the homo sapiens. This leads onto a logical, commonsensical, pragmatic and practical homo sapien brain. The homo sapiens due to lack of archaea and the RNA viroids are susceptible retroviral infection. Thus the archaeal colonies and RNA viroidal quasi-species consortia determine the evolution of the human species and the brain networks. Thus extremes of temperature, fibre intake, archaeal colony density, RNA viroidal quasi-species, group identity and retroviral resistance decides on the evolution of homo sapiens and homo neanderthalis as well as the brain networks. The present extremes of temperature and low fibre intake in civilized society can lead to increase in archaeal population densities and quasi-species RNA viroidal networks generating a new homo neanderthalis in a new neanderthalic anthropocene age as opposed to the present homo sapien anthropocene age. The archaeal population densities and quasi-species RNA viroidal networks determine homo sapien/homo neanderthalis species, racial, caste, community, national, sexual, metabolic, phenotypic, immune, genotypic neuronal, psychiatric, psychological and individual identity. The archaea secretes the trephone digoxin which can edit the RNA viroids and generate new sequences. Archaeal dipolar magnetite and porphyrins in the setting of digoxin induced membrane sodium potassium ATPase inhibition can produce a pumped phonon system mediated quantal perceptive state and quantal communication in the RNA viroidal symbiotic system generating new sequences by steroidal digoxin enzymatic editing action. This gives rise to archaeal RNA viroidal quasi-species symbiotic diversity and identity to species, race, caste, sex, culture, individual and national identity.

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The roots of Western civilizational disease can be related to the starvation of the colonic microflora. The colonic microflora depends upon complex carbohydrates derived from dietary fibre. The processed food of high protein, fat and sugars is digested and absorbed in the stomach and small intestine. A very little of it reaches the colon and widespread use of antibiotics in medicine has produced mass extinction of the colonic

microflora. The colonic microflora is extremely diverse and the diversity is lost. There are 100 trillion bacteria in the colon belonging to 1200 species. They regulate the immune system by inducing the T-regulatory cells. A high fibre diet contributes to colonic microbiota diversity. Interaction with farm animals like cows and dogs also contributes to the colonic microflora diversity. The typical Western diet of high fat, high protein and sugars decreases the colonic microbiota diversity and increase colonic/endosymbiotic archaea producing methanogenesis. The colonic archaea feed upon the mucous lining of the colon and produces leakage of archaea into the blood and tissue system producing endosymbiotic archaea. This results in a chronic inflammatory state. The high fibre diet of Africans, South Americans and Indians produces increased colonic microbiota diversity and increase in clostridial clusters generating SCFA in the gut. High fibre diet is protective against metabolic syndrome and diabetes mellitus. Metabolic syndrome is related to degeneration, cancer, neuropsychiatric illness and autoimmune disease. A high fibre diet of upto 40 g/day can be called as a gut diet. The colonic microflora especially the clostridial cluster digests the fibre generating short chain fatty acids which regulates immunity and metabolism. High fibre diet increases the colonic mucus secretion and the thickness of the mucus lining. A high fibre diet produces increase in clostridial clusters and mucous secretion. This produces a strong gut blood barrier and prevents metabolic endotoxemia which produces a chronic inflammatory response. High dietary fibre intake and the diversity of the colonic microflora with prominent SCFA producing clostridial clusters are interrelated. The clostridial clusters metabolise the complex carbohydrate in dietary fibre to short chain fatty acids butyrate, propionate and acetate. They increase the T-regulatory function. A high fibre diet increases the bacteroides and reduces the firmecutes of the colonic microflora. A high fibre diet is associated with a low body-mass index. A low fibre diet produces increase in colonic archaeal growth as well as endosymbiotic tissue and blood archaea. This produces more of methanogenesis rather than short chain fatty acid synthesis contributing to immune activation. A low fibre diet is associated a high body-mass index and chronic systemic inflammation. Germ-free mice show cardiac, pulmonary and liver atrophy. Gut microflora is required for the generation of organ systems. The gut microflora is also required for generation of T-regulatory cells. High fibre intake produces more colonic microbiota diversity and increase in clostridial clusters and fermentation by products like butyrate which suppresses inflammation and increases T-regulatory cells. A low fibre diet produces increase in archaeal growth, methanogenesis, destruction of the mucus lining and leakage of the colonic archaea producing endosymbiotic tissue and blood archaea. This produces an immune hyperreactivity contributing to the

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modern plagues of civilization- metabolic syndrome, schizophrenia, autism, cancer, autoimmunity and degenerations. The gut microbiota drives human evolution. The humans do not host the gut microbiota but the gut microbiota host us. The human system forms an elaborate culture laboratory for the propagation and survival of the microbiota. The human system is induced by the microbiota for their survival and growth. The human system exists for the microbiota and not the other way round. The same mechanism holds good in plant systems. Plant started the colonized earth as they started symbiosing with bacteria in the roots systems which can derive nutrients from the soil. Human beings form a mobile culture laboratory for the more effective propagation and survival of the microbiota. The microbiota induces the formation of specialized immune cells called innate lymphoid cells. The innate lymphoid cells will direct the lymphocytes not to attack the beneficial bacteria. Thus the endosymbiotic archaea and the gut archaea induce human, primate and animal evolution to generate structures for them to survive and propagate. The source of endosymbiotic archaea, the third element of life is the colonic archaea that leaks into the tissue spaces and blood systems due to breach in the gut blood barrier. The increase in colonic archaea is due to the starvation of the gut microbiota consequent to a low fibre diet. This results in increase in colonic archaeal growth and destruction of clostridial clusters and bacteroides. The increase colonic archaeal growth in the presence of gut starvation due to low fibre diet eats up the mucus lining and produces breakages in the gut blood barrier. The colonic archaea enters the blood stream and produces endosymbiosis generating endosymbiotic archaea and various new organelle- fructosoids, steroidelle, vitaminocyte, viroidelle, neurotransminoid, porphyrinoids and glycosaminoglycoids.

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Memes, Genes and Cerebellar Function

Genes are self replicators and have produced human evolution. Culture is another mechanism of human evolution. Culture as a mechanism of human evolution is faster than genomic evolution. It can be an idea, a design, a fashion, religion, music, dance, rituals or a language. These are stored as unconscious programmes in the brain. The unit of cultural transmission is called a meme. The unit of imitation is also a meme. Memes are self-replicators. Self-replicators can evolve. Only replicators can evolve. Replicators are blind and selfish. Memes are unconscious and are localized to the cerebellum. This is exemplified by the cerebellar cognitive affective disorder. We have gene machine making the body and meme machine making the culture. Both these machines are blind, selfish replicators. The human consciousness is not meme related and can rebel against the tyranny of replicators.

An idea or a meme can infect the brain by quantal perception or mirror neuron function which serves the purpose of imitation. This can spread from one human brain to another and depending on its fidelity, fecundity and usefulness can be long lasting and survive. Memes can also co-evolve. The idea of God meme has co-evolved with music, dance and rituals. God meme is common to different civilizations as it is a useful unit of culture.

Memes are selfish, ruthless and ideological and unconsciously propagate. Memes are stored in human brain computer and compete for fecundity, storage space and time. Memes dominate and compete for attention of the brain along with other rival memes. They are self-perpetuating ruthless ideas which dominate the unconscious brain. Memes can co-evolve. God meme co-evolve with the blind faith meme, the hell-fire meme, music and dance meme because of its evolutionary advantage and successfully competed and won over other rival memes for computer space. They are called co-adapted meme complexes.

Meme are selected in cultural environment. The gene evolution produces the human brain or computer. The human brain produces brain to brain transmission of memes by imitation behavior and genes have no role in the selection and evolution of meme complexes. Selfish genes and memes are unconscious, blind replicators. Selfish genes and memes have no foresight. The human brain is built as a gene machine and culture as a meme machine. It is human consciousness which can rebel against the tyranny of the selfish replicators.

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Memes as unit of culture can get structured as information programmes in synaptic pathways of the brain. This can affect membrane sodium potassium ATPase function and intracellular calcium magnesium ratios modulating reverse transcriptase activity and jumping gene functions. This creates genomic plasticity. Memes when imitated by mirror neurons and quantal perceptive neurons by activity of low level EMF can induce heme oxygenase activity, deplete heme and induce porphyrin synthesis. Porphyrins can intercalate with RNA and DNA modulating genomic function. Thus memes by their imitation can modulate genomic plasticity which can get structured in the human genome so that it is transmitted over generations. Thus memes can produce changes in genomic evolution.

Memes arise from the meme pool and spread from brain to brain by imitation behavior. Imitation behavior is seen in frontal lobe syndrome. In prefrontal atrophy cerebellar dominance takes over and imitation behaviour is a feature of cerebellar cognitive function. The cerebellum plays a crucial role in imitation behavior and transmission of memes. Cultural transmission of memes depends on the cerebellum. Cerebellum is the basis of human

culture. The meme will literally parasitize the brain like human endogenous retroviruses. The human endogenous retroviruses cannot spread brain to brain. Genes are limited by brains and there is only vertical transmission of genes by the process of reproduction. Memes by imitation behavior and cerebellar function can have a faster transmission resulting in the creation and transmission of culture.

Memes can also affect genomic transmission. A thought or a meme can produce changes in low level EMF and modulate porphyrin synthesis. Porphyrins can intercalate with nucleic acids modulating gene expression. The memes or thought ideas can alter neuronal firing, inhibiting membrane sodium potassium ATPase and increase intracellular calcium and reduce intracellular magnesium. Magnesium is required for reverse transcriptase activity. Thus memes or thought via membrane sodium potassium ATPase inhibition and altered intracellular calcium/magnesium ratio can modulate HERV expression, jumping genes and the dynamicity of the human genome. Memes can regulate the genes. Cultural transmission of memes can modulate genomic plasticity.

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Archaea can control both cultural meme transmission and genomic transmission. The archaeal magnetite is capable of quantal perception and forms the basis of imitation behavior. Imitation behavior is the mechanism by which memes are propagated. The memes get selected from the meme pool depending on its fecundity, copying fidelity, longevity and faster rate of spread. Memes can also evolve as its spreads from brain to brain. Quantal perceptive mediated cerebellar imitative behaviour is the basis of cultural transmission of memes. The archaea can also modulate genomic transmission. The archaea secretes RNA particles which functions as RNA viroids. The archaea derived RNA viroids can use the HERV reverse transcriptase and get converted to DNA which is then integrated into the human genome by HERV integrase. Thus the archaeal derived RNA viroids can contribute to jumping genes in the human genome.

CHAPTER 7

THE EXTRATERRESTRIAL CORONA VIRUS PANDEMIC AND CATASTROPHIC HUMAN EXTINCTION – RELATION TO CLIMATE CHANGE AND PORPHYRINOGENESIS – AN ALIEN VISITATION

The corona virus produces defects in oxygenation of hemoglobin. The lung lesions produced by the corona virus is not an adult respiratory distress syndrome but a syndrome akin to high altitude sickness due to oxygen deprivation. The corona virus is a lipid envelope RNA virus and gets transcribed into DNA segments using the HERV reverse transcriptase. The corona virus RNA that gets transcribed to DNA can get integrated into the non-coding sequence of the human DNA and can function as jumping genes. The corona viral proteins can be synthesized by the human cell. The corona virus can displace iron from the beta chain of hemoglobin rendering hemoglobin and oxygen transport dysfunctional. The human body is subjected to a hypoxic ischemic injury consequent to defect in oxygen transport as occurs in high altitude mountain sickness, cyanide poisoning and carbon monoxide poisoning. The corona virus can release iron from hemoglobin and increase the ferritin levels and free iron levels to catastrophic levels. This produces cytokine activation due to increase in free radicals. The corona virus can deplete heme from hemoglobin and other heme containing enzymes. This includes cytochrome C oxidase which produces a mitochondrial dysfunction and hypoxic injury. It can bind with heme enzymes like nitric oxide synthase which produces nitric oxide, cystathionine beta synthase which produces defective synthesis of hydrogen sulphide and heme oxygenase which produces defective carbon monoxide production. Thus the endogenous vasodilator neurotransmitters are depleted producing generalized tissue vasoconstriction. The heme containing enzymes involved in glutathione metabolism-glutathione synthetase and glutathione reductase are also made dysfunctioning inhibiting free radical scavenging. The TCA cycle enzyme aconitase is also a heme enzyme and the corona virus inactivates it. The cytochrome P450 enzymes involved in steroid synthesis are also heme enzymes and they are inactivated producing acute cortisol, aldosterone and sex steroid depletion. The corona virus also produces a protein that inactivates furin involved in activating various protein enzymes.

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The corona virus infection produces a metabolic disorder with defects in oxygenation and the syndrome of acquired acute porphyria with secondary iron overload state. The treatment of corona virus infection does not depend upon ventilation at high PEEP low tidal

volume but at high FIO2. Hyperbaric oxygen therapy can also correct. This is ineffective as there is no hemoglobin transport oxygen. Packed cell transfusions will be required to correct the hemoglobin deficiency and oxygenation defects. Increased amounts of free iron and high ferritin can produce free radical injury and a secondary ARDS like picture which may need ventilation. Ventilation as such would not correct the primary defect in heme oxygenation. The high levels of ferritin may need iron detoxification using drugs like Desferal which chelates out the iron overload state. Excess iron can lead to free radical generation, tissue injury, immune activation and cytokine injury. The heme deficiency related cytochrome C oxidase deficiency and aconitase deficiency will have to be treated by mitochondrial supplements like CoQ and carnitine. The corona virus produces an acute porphyria and porphyrin synthesis will have to be inhibited by giving IV heme infusions. Heme inhibits porphyrin synthesis. The symptoms of porphyria are due to defects in inhibitory GABA transmission. In porphyria there is increase in delta amino levulinic acid synthesis and decrease in GABA transmission. ALA will displace GABA from its binding sites. Porphyric crisis are treated by giving gamma amino butyric acid. IV dextrose infusions will also help to inhibit ALA synthase and porphyrin synthesis. Porphyrins can also be removed by plasmapheresis. The glutathione deficiency has to be corrected by giving IV glutathione infusions. The deficiency in nitric oxide can be corrected by inhale nitric oxide preparations. The cytochrome P450 deficiency mediated reductions in steroids will also have to be corrected.

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The corona virus binds to porphyrins and takes out porphyrins from the human system producing an acquired porphyria. When the porphyrins are taken away from heme, ALA synthase is activated producing an acquired porphyria. Such an acquired porphyria has been described in porphyria variegate and viral infections like SARS, HIV, HCV. The abnormal increase in porphyrin synthesis produces an acquired porphyria in corona virus infection with neuropsychiatric manifestations, autonomic dysfunction, visceral crisis, decreased inhibitory GABA transmission and dysfunction of all heme containing enzyme systems- mitochondrial cytochrome C oxidase, cytochrome P450 enzyme systems involved in steroid and fatty acid metabolism, glutathione metabolism enzymes, TCA cycle aconitase and enzymes involving gasotransmitter synthesis.

The corona virus induced increase in porphyrin synthesis and porphyria has got other major catastrophic consequences. The porphyrins can self-organise and self-replicate to form porphyrions which are primitive organisms. The porphyrions are the initial primitive

abiogenetic organisms. The porphyrions can self-replicate and can have a primitive electron transport chain for ATP synthesis. The porphyrion can form a template for further corona virus abiogenetic replication. Thus the corona virus can induce an acquired porphyria, form porphyrions which can self-replicate and self-organize and can have porphyrion template induced abiogenetic corona virus replication. Thus the potential for corona virus replication by abiogenetic porphyrin induced templates is non-stoppable and continues probably eternal. The corona virus does not need the human host to replicate and survive. The corona virus RNA can get transcribed to DNA using HERV reverse transcriptase and colonize to human genome as the ultimate parasite taking over the function of the human body. The corona virus will thus never leave the human system.

Climate change leads to increased porphyrin synthesis and porphyrin template mediated replication of viruses, prions and archaea. There is increased porphyrin synthesis leading on to porphyrinuria and porphyria. The stimulus for porphyrin synthesis comes from heme deficiency. Heme suppresses ALA synthase. Stress induces heme oxygenase which converts heme to carbon monoxide and bilirubin. Thus heme is depleted from the system. Heme oxygenase is induced by environmental stress. Climatic changes of global warming and ice age can induce heme oxygenase. Heme oxygenase is also induced by EMF pollution of the environment. Thus there is increased porphyrin synthesis from succinyl CoA and glycine. The porphyrins can self organize and self replicate to form primitive organisms called porphyrions. The porphyrions have a primitive electron transport chain and energetics. The porphyrions are capable of information transfer and storage by quantal perception. The porphyrions form a template for the formation of RNA viruses and viroids, DNA viruses and viroids, isoprenoid organisms and prions which all can self organize and associate to form primitive archaea. Thus the climate change induced global increase in porphyrin synthesis in humans lead to increased abiogenetic formation of archaea which produces more of methane and methanogenesis leading to more of global warming. Global warming leads to more heme oxygenase induction and porphyrinogenesis. The porphyrins can form a template for abiogenetic replication of RNA viruses like corona viruses. The porphyrins can intercalate between cellular and organelle membranes and the porphyrin corona virus complex can enter all cell types and organelle with these. The porphyrins will serve for abiogenetic template mediated self replication of the corona virus. The corona virus RNA can get transcribed to DNA sequences by using human HERV reverse transcriptase. The corona virus DNA sequences can get integrated into the human genome non-coding area producing dynamic

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changes in the human genome. The corona virus can thus persists and replicate biologically and abiogenetically in the human system forever eternally.

Defect in heme synthesis and heme depletion leads to deficiency of heme enzymes. Deficiency cytochrome C oxidase and aconitase leads to mitochondrial oxidative phosphorylation defects and TCA cycle defects. This leads to pyruvate dehydrogenase deficiency and defect in synthesis of acetyl CoA. There is increase in glycolysis consequent to porphyrin photo-oxidation induced free radical generation and HIF alpha induction. This produces the Warburg phenotype. The increased level of pyruvate that is generated is converted to glutamate and ammonia. Thus there is hyperammonemia as a consequence of the metabolic defect. Since glycine is utilized for porphyrin synthesis serine is not synthesized leading onto deficiency of the substrate for synthesis of cystathionine. This leads to accumulation of homocysteine and homocystinuria. Deficiency of acetyl CoA leads to defects in the isoprenoid pathway and defective synthesis of cholesterol and ubiquinone. There is also deficiency of the heme containing cholesterol synthesizing enzyme lanosterol synthase. This leads to a cholesterol depleted state.

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The increase in porphyrins leads to cortical dysfunction and prefrontal cortex atrophy. The porphyrins can destroy the human endogenous retroviruses and the jumping genes leading to lack of dynamicity of the genome. This leads onto maldevelopment of the prefrontal cortex. This leads onto cerebellar dominance and a cerebellar cognitive affective disorder. This produces porphyrin related quantal perception. Porphyrins are dipolar molecules and in the setting of porphyrin mediated membrane sodium potassium ATPase inhibition induced pumped phonon system can produce a quantal perceptive state. Porphyrins are macromolecules which can have both a wave and particle existence and can bridge the particulate world and the quantal world. Membrane sodium potassium ATPase inhibition induced dipolar porphyrin mediated pumped phonon system can lead onto a cellular plasma state and EMF signal transduction. Macromolecules like RNA, DNA, protein and the cell itself can have an EMF signature. This porphyrin generated macromolecular cellular EMF signature is important in regulation of cell function. The porphyrins can have quantal perception of low level EMF fields leading to prefrontal cortex atrophy. This leads onto cortical dysfunction and lack of functioning of the conscious brain. The cerebellum dominates and the unconscious takes over. This leads onto Neanderthalisation of the brain and schizophrenia and autism. The heme deficiency leads to lack of synthesis of the heme enzyme cytochrome P420 dependent sex hormones and a widespread asexual state. The

mitochondrial dysfunction leads onto insulin resistance and metabolic syndrome X. The Warburg phenotype and increased glycolysis leads to oncogenesis. The mitochondrial dysfunction can produce neurodegeneration. The increase in lymphocyte glycolysis can produce immune activation and autoimmune disease. Thus the stress induced porphyria due to climatic change and environmental pollution can lead to civilisational disease.

The porphyrins can self organize to form macromolecular structures which can self replicate to form a porphyrin organism. The photon induced transfer of electrons along the macromolecule can lead to light induced ATP synthesis. The porphyrins can form a template on which RNA and DNA can form generating viroids. The porphyrins can also form a template on which prions can form. They all can join together – RNA viroids, DNA viroids, prions – to form primitive archaea. Thus the archaea are capable of self replication on porphyrin templates. The self replicating archaea can sense gravity which gives rise to consciousness. They can also sense the anti-gravity fields which gives rise to the unconscious brain. Thus there can be both self replicating archaea and anti-archaea regulating the conscious and unconscious brain. Thus the climate change stress mediated increased porphyrin synthesis leads to prefrontal cortex atrophy, cerebellar dominance, cerebellar cognitive affective disorder, quantal perception and Neanderthalisation of the population. The porphyrions are self replicating supramolecular organisms which forms the precursor template on which the viroids, prions and nanoarchaea originate. Stress induced template directed abiogenesis of porphyrions, prions, viroids and archaea is a continuous process and can contribute to changes in brain structure and behavior as well as disease process.

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The corona virus is possibly an extraterrestrial virus which came into earth following a meteoric impact in Wuhan region of China and circulates in the stratosphere of earth directed by winds in the latitudinal region N 40-70. The universe is biological in origin. The metal actinides provide radiolytic energy, catalysis for oligomer formation and provide a coordinating ion for metalloenzymes all important in abiogenesis. The metal actinide surfaces would by surface metabolism generate porphyrins from simple compounds like succinic acid and glycine. Porphyrins can exist as wave forms and particulate forms and can bridge the dividing line between the quantal world and particulate world. Porphyrin molecules can self organize into organisms with energy transduction, ATP synthesis and information storage with replicating capacity. A self replicating porphyrin microorganism may have played a role in the origin of life. Porphyrins can form templates on which macromolecules like polysaccharides, protein and nucleic acids can form. The macromolecules generated on

actinidic porphyrins templates would have contributed to the actinidic nanoarchaea and the original organisms on earth. The data supports the persistence of an actinidic archaeal shadow biosphere which throws light on the actinide based origin of life and porphyrins as the premier prebiotic molecule.

Porphyrins play an important role in the genesis of the biological universe. The porphyrin macroarrays can form in the interstellar space on its own as porphyrins can exist both as particles and waves. Porphyrins form the bridging connection between the quantal world and the particulate world. The self generated porphyrins from the quantal foam can self organize to form macroarrays, can store information and self replicate. This can be called as an abiotic porphyrin organism. The porphyrin template would have generated nucleic acids, proteins, polysaccharides and isoprenoids. This would have generated actinidic nanoarchaea in the interstellar space. The porphyrins have magnetic properties and the interstellar porphyrin organism can contribute to the interstellar grains and interstellar magnetic fields.[37] The cosmic dust grains of porphyrin macroarrays/nanoarchaeal organism occupy the intergalactic space and are thought to be formed of magnetotactic bacteria identified according to their spectral signatures. According to the Hoyle's hypothesis, the cosmic dust magnetotactic porphyrin macroarrays/nanoarchaeal organism plays a role in the formation of the intergalactic magnetic field. A magnetic field equal in strength to about one millionth part of the magnetic field of earth exists throughout much of our galaxy. The magnetic files can be used to trace the spiral arms of the galaxy following a pattern of field lines that connect young stars and dust in which new stars are formed at a rapid rate. Studies have shown that a fraction of the dust particles have elongated shape similar to bacilli and they are systematically lined up in our galaxy. Moreover the direction of alignment is such that the long axes of the dust tend to be at right angles to the direction of the galactic magnetic field at every point. Magnetotactic porphyrin macroarrays/nanoarchaeal organisms have the property to affect the degree of alignment that is observed. The fact that the magnetotactic porphyrin macroarrays/nanoarchaeal organisms appear to be connected to the magnetic field lines that thread through the spiral arms of the galaxy connecting one region of star formation to another support a role for them in star formation and in the mass distribution and rotation of stars. The nutrient supply for a population of interstellar porphyrin macroarrays/nanoarchaeal organisms comes from mass flows out of supernovas populating the galaxy. Giants arising in the evolution of such stars experience a phenomenon in which material containing nitrogen, carbon monoxide, hydrogen, helium, water and trace elements essential for life flows

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continuously outward into space. The interstellar organisms need liquid water. Water exists only as vapour or solid in the interstellar space and only through star formation leading to associated planets and cometary bodies can there be access to liquid water. To control conditions leading to star formation is of paramount importance in cosmic biology. The rate of star formation is controlled by two factors. Too high a rate of star formation produces a destructive effect of UV radiation and destroys cosmic biology. Star formation as stated before produces water crucial for organism growth. Cosmic biology of magnetotactic organisms and star formation are thus closely interlinked. Systems like solar systems do not arise in random condensation of blobs of interstellar gas. Only by a rigorous control of rotation of various parts of the system would galaxies and solar system evolved. The key to maintaining control over rotation seems to lie in the intergalactic magnetic field as indeed the whole phenomena of star formation. The intergalactic magnetic fields owes its origin to the lining up of magnetotactic porphyrin macroarrays/nanoarchaeal organisms and the cosmic biology of interstellar organisms can prosper only by maintaining a firm grip on the interstellar magnetic field and hence on the rate of star formation and type of star system produced. This points to a cosmic intelligence or brain capable of computation, analysis and exploration of the universe at large- of magnetotactic porphyrin macroarrays/nanoarchaeal organism networks. The origin of life on earth according to the Hoyle's hypothesis would be by seeding of porphyrin macroarrays/nanoarchaeal organism from the outer intergalactic space. The porphyrin organism can also be generated on actinidic surfaces in earth. Comets carrying porphyrin organisms would have interacted with the earth. A thin skin of graphitized material around a single porphyrin macroarrays/nanoarchaeal organism or clumps of organism can shield the interior from destruction by UV light. The sudden surge and diversification of species of plants and animals and their equally sudden extinction has seen from fossil records point to sporadic evolution produced by induction of fresh cometary genes with the arrival of each major new crop of comets[38,39]. The porphyrin macroarrays organism can have a wave-particle existence and bridge the world of bosons and fermions. The porphyrin macroarrays/nanoarchaeal organism can form biofilms and the porphyrin organism can form a molecular quantum computing cloud in the biofilm which forms an interstellar intelligence regulating the formation of star systems and galaxies. The porphyrin macroarrays/ nanoarchaeal organism quantal computing cloud can bridge the wave particle world functioning as the anthropic observer sensing gravity which orchestrates the reduction of the quantal world of possibilities in to the macroscopic world. The actinide based

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porphyrin macroarrays/nanoarchaeal organism regulates the human system and biological universe.[19-21]

Porphyrins also have evolutionary significance since porphyria is related to Scythian races and contributes to the behavioural and intellectual characteristics of this group of population. Porphyrins can intercalate into DNA and produce HERV expression. HERV RNA can get converted to DNA by reverse transcriptase which can get integrated into DNA by integrase. This tends to increase the length of the non-coding region of the DNA. The increase in non-coding region of the DNA is involved in primate and human evolution. Thus, increased rates of porphyrin synthesis would correlate with increase in non-coding DNA length. The alteration in the length of the non-coding region of the DNA contributes to the dynamic nature of the genome. Thus genetic and acquired porphyrias can lead to alteration in the non-coding region of the genome. The alteration of the length of the non-coding region of the DNA contributes to the racial and individual differences in populations. An increased length of non-coding region as well as increased porphyrin synthesis leads to increased cognitive and creative neuronal function. Porphyrins are involved in quantal perception and regulation of the thalamo-cortico-thalamic pathway of conscious perception. Thus genetic and acquired porphyrias contribute to higher cognitive and creative capacity of certain races. Porphyrias are common among Eurasian Scythian races who have assumed leadership roles in communities and groups. Porphyrins have contributed to human and primate evolution.[3,4]

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The dipolar porphyrins, PAH and archaeal magnetite in the setting of digoxin induced sodium potassium ATPase inhibition can produce a pumped phonon system mediated Frohlich model superconducting state inducing quantal perception with nanoarchaeal sensed gravity producing the orchestrated reduction of the quantal possibilities to the macroscopic world. ALA can produce sodium potassium ATPase inhibition resulting in a pumped phonon system mediated quantal state involving dipolar porphyrins. Porphyrins by autooxidation can generate biophotons and are involved in quantal perception. Biophotons can mediate quantal perception. Cellular porphyrins photooxidation are involved in sensing of earth magnetic fields and low level biomagnetic fields. Porphyrins can thus contribute to quantal perception. Low level electromagnetic fields and light can induce porphyrin synthesis. Low level EMF can produce ferrochelatase inhibition as well as heme oxygenase induction contributing to heme depletion, ALA synthase induction and increased porphyrin synthesis. Light also induces ALA synthase and porphyrin synthesis. The increased porphyrin synthesized can contribute to increased quantal perception and can modulate conscious

perception. The porphyrin induced biophotons and quantal fields can modulate the source from which low level EMF and photic fields were generated. Thus the porphyrin generated by extraneous low level EMF and photic fields can interact with the source of low level EMF and photic fields modulating it. Thus porphyrins can serve as a bridge between the human brain and the source of low level EMF and photic fields. This serves as a mode of communication between the human brain and EMF storage devices like internet. The porphyrins can also serve as the source of communication with the environment. Environmental EMF and chemicals produce heme oxygenase induction and heme depletion increasing porphyrin synthesis, quantal perception and two-way communication. Thus induction of porphyrin synthesis can serve as a mechanism of communication between human brain and the environment by extrasensory perception. The porphyrions are self replicating supramolecular organisms which forms the precursor template on which the viroids, prions and nanoarchaea originate. Stress induced template directed abiogenesis of porphyrions, prions, viroids and archaea is a continuous process and can contribute to changes in brain structure and behavior as well as disease process.

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Life in earth would have evolved by seeding of viroids and archaea from the outer space consequent to asteroidal hits. The universe would have a biological origin and it is plausible that is there extraterrestrial intelligence in the form of a quantal computing cloud formed of archaea, viroids and porphyrions controlling and creating the universe. This could be considered as a biological God. The quantal computing cloud in the intergalactic space made up of archaea, viroids and porphyrions can seed organisms into the earth off and all through asteroidal impacting infusing a fresh set of genes into the planet and regulating the planet organization and function. The evolution of life and species on earth would have occurred by the phenomena of panspermia. The various pandemics that occurred in the various phases of the history of the earth would have an extraterrestrial source. The theory of panspermia has been widely propagated by the astronomer Fred Holye in recent times. Holye also postulated a microbiological origin of the universe formed of intergalactic magnetic fields generated by bacteria. The pandemics occurring in earth at recurrent periods of time would be generated by the extraterrestrial quantal computing biological cloud due to asteroidal impacts. The asteroidal impacts have been described before the Spanish flu pandemic of 1915. Wickramasinghe has claimed that the corona virus came from space by meteor and the prevailing winds are spreading the disease to the hardest hit countries. The virus has spread by the prevailing winds along a global band about 40-60^{o} N latitude. A

meteor was seen as a blazing fireball flying across sky north-east of China in October 2019. The cornoa virus outbreak occurred in the same region as China as the fireball was fallen. He belives that the meteor contained embedded within it the nCoV virus particles that survived the interior of the incandescent meteor. Infectious agents are present in space carried on comets and can fall towards the earth to the troposphere. They bring about human epidemics and pandemics. The seeding of the earth by the extraterrestrial quantal computing biological cloud can be a deliberate act to regulate the organization and functioning of the earth. It could be a form of contact with an extraterrestrial alien which could be hostile or friendly. The extraterrestrial quantal computing biological cloud can produce seeding of archaea and viroids generating changes in society. It can produce changes in the human species and neanderthalisation, generates asexual phenotypes and autistic phenotypes. The extraterrestrial quantal computing biological cloud can create a surrealistic, syntheistic quantal perceptive and spiritual brain. This can also be lead on to globalization and anarchy. Extraterrestrial quantal computing biological intelligence can thus modulate the structure of society on earth. The archaeal endosymbiosis induced by the extraterrestrial quantal computing biological cloud can generate a homo galacticus species capable of surviving in extraterrestrial environment and communicating by extrasensory quantal perception. This can lead to the evolution of a galactic civilization and intergalactic communication modulated by the extraterrestrial quantal computing biological cloud of porphyrions, archaea and viroids.

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The Fermi paradox says that there are inhabitory planetary systems in different galaxies and it is paradoxical that human beings are not come into contact with alien intelligence. The Drake equation helps us to calculate the number of intelligent civilizations in different galaxies of the universe. The intergalactic archaeal quantal computing clouds serves as the master of the universe and as the ubiquitous universal observer. The quantal computing archaeal clouds seed life in different planetary systems of galaxies. The universe can exist in the particulate and quantal state with swings between the two states determined by the master archaeal quantal computing cloud which functions as ubiquitous observer and intelligence controlling, creating and regulating the universe. Each civilization has a particulate and quantal counterpart. The particulate part of the civilization is not sensed by another civilization. The quantal computing cloud serving as the master intelligence is a universal observer and prevents particulate civilizations from coming to contact. There is a permanence of the quantal universe. The quantal civilizations inhabiting multiverses are in contact with each other through worm holes.

Every civilization is a dark forest. Every civilizations aim is to survive. Contact with another civilization results in annihilation. Civilizations hide their signals. Just like animals and hunters in the forest. Paranoid and suspicious about intentions. Finite resources in universe. Each civilization seeks to expand. Galactic civilizations are like the dark forest and hide from each other for the fear of mutual annihilation. Therefore contact with other galactic civilizations is an impossibility. The civilization in earth would have by its technological advances, galactic travels and radiation sources penetrated the dark forest and came into contact with the extraterrestrial quantal computing cloud serving as the master intelligence and universal observer creating the observed world.

Gravity is related to consciousness which is structured in the cerebral cortex and antigravity to unconsciousness which is structured in the cerebellum. Quantal computing involving topological superconductivity can make use of cubits of graviton and antigraviton which can lead on to the creation of a universal quantal computing cloud- the supercomputer God. Panpsychism considers the universe as conscious and consciousness as a intrinsic feature of all sub-atomic particles, living things and non-living things. This gives continuity between the quantal world of existence and macroscopic world. The quantal superpositions collapse or undergo decoherance due to the observation of universal protoconsciousness field. The universal protoconsciousness field can be considered as gravity and antigravity. The universal protoconsciousness field permeates the whole galaxy and is intrinsic to all matter. Matter is a creation of consciousness. Extraterrestrial intelligence can exist as a superorganism controlling and creating the universe. A network of extraterrestrial porphyrin molecules or porphyrions fits in well with this concept. Porphyrins have got a wave-particle existence and can arise from the quantal foam of gravitational waves and anti-gravitational waves which creates human consciousness and unconsciousness respectively. This can form a quantal computing God cloud of porphyrions with quantal computing involving topological superconductivity can make use of cubits of graviton and antigraviton.

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Extraterrestrial intelligence can exist as a superorganism controlling and creating the universe. In this regard the concept of black cloud of gaseous extraterrestrial superorganism put forward by Fred Hoyle is significant. The black clouds of interstellar gas are made up of hydrogen. There are small pieces of solid matter at the centre and are linked to form a complex neurological system. Clouds have the capacity to increase the brain size and complexity and become intelligent. A network of extraterrestrial porphyrin molecules fits in well with this concept. Porphyrins have got a wave-particle existence and can arise from the

quantal foam of gravitational waves and anti-gravitational waves which creates human consciousness and unconsciousness respectively. A large organized self-replicating information system of porphyrins can function as a extraterrestrial intelligent organism. The intelligent black cloud when it finds a lifeless interstellar cloud creates simple brain system by transfer to the lifeless cloud. This gives a lifeless cloud life and intelligence. Black clouds never disappear, never age and never reproduce. Black clouds can communicate with other black clouds by radio wave brain waves. Black clouds need star light to metabolize chemical substances. The porphyrin arrays can utilize light to self-replicate and propagate. Being clouds of gas the super organism can assume any shape. When the food supplies of the black cloud in the interstellar space falls the black cloud approaches a star and assumes a disc-like shape to absorb energy from the star. The cloud has to leave the star within a short span of time or it will condense to become the planet of the star. This can be compared to the molecular quantum computing clouds of Tamulis. These are massive immobile extraterrestrial intelligence which sprawls and stretches for hundreds and thousands of miles in the interstellar space. They can be compared with group of neurons which are interconnected. Each node in the network is a brain. This gaseous extraterrestrial intelligence can arise from an emission nebula. An emission nebula is one of the huge clouds of gas and dust that floats around in the interstellar space. In this could chemical molecules of life carbon monoxide, formaldehyde, methanol, hydrogen sulphide, sulphur oxide, sulphur dioxide and hydrogen cyanide are seen. Life arises in this interstellar chemical cloud of gas. Porphyrins arrives which can self-replicate can arise in this chemical interstellar clouds. This creates a superorganism which can form superintelligence. The interstellar gas is mostly made up of hydrogen. The higher dense regions of the interstellar gas can condense to form stars and planets. The coldest clouds form low mass stars and giant molecular clouds forms large mass stars. This form of gaseous extraterrestrial intelligence is seen in atmospheres of other planets in the cloudy organic molecular atmosphere and interstellar space. This fits in with the concepts of human evolution in earth where the protoplasmic body can get converted to the robotic body and then the energy body. The cool or hot interstellar gas can generate networks of extremophilic archaea which can survive on carbon dioxide and hydrogen. They are called the halophilic archaea or the methanogenic archaea. They can live in extremes of cold, heat, acid and pressure. The porphyrin network can form a template for the generation of viroids and prions which can symbioze together to form an archaeal and huge extraterrestrial interstellar gas archaeal network with intelligence can arise. This can condense to generate stars and planets as well as evolving life in planetary systems. The

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archaeal networks are capable of nuclear fusion and fission reaction and can power star systems like the sun. It is extremely plausible that extraterrestrial intelligence is an interstellar archaeal colony network arising abiogenically on porphyrin templates which can be generated sui generis from the quantal foam of gravitational waves and anti-gravitational waves. The interstellar dust forms stars and planets and the magnetotactic archaea generated intergalactic magnetic fields plays a role in the generation of star and planetary systems. The giant molecular porphyrin clouds and archaeal networks are extraterrestrial intelligence that plays a crucial role in star formation and formation of planetary systems. The extraterrestrial intelligence porphyrin network and archaeal network can communicate with any part of the universe by the phenomena of quantal entanglement. Interstellar gas is formed of grains of calcified nanoarchaea. Tamulis has postulated molecular quantal computing clouds that absorb magnetic and light emissions from planet and stars, compute information and move in space by using light pressure. The clouds use photoactive molecules for molecular quantal computing. They can convert light emissions to magnetic flops. The magnetic flops interact and control the central generating elements of 10 quantum bits of the molecular quantum computing clouds. Such clouds can exist in a coherent state at low temperature of the interstellar gas. Porphyrin networks are photoactive molecules and can generate molecular quantal computing clouds which can absorb magnetic and light emissions from planet and stars, compute information and move in space by using light pressure. The porphyrin networks can abiogenically generate archaeal bacterial massive extraterrestrial network intelligence. This formless mass living in space obtains its energy from the light of the stars and communicates with itself and other forms of lights by radio waves. The interstellar gas is analogous to blood, the heard and kidneys are electromagnetic and there is a complex neurological system of the brain. This cloud of interstellar gas porphyrin networks and archaeal colonies can convert into stars and planetary system by condensation. The energetics for star systems comes from biological fusion and fission reaction occurring in archaeal networks. The archaeal networks of extraterrestrial intelligence can engineer changes in human mind and civilization.

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The extraterrestrial intelligence is an archaeal colony network. It arises on porphyrins which are generated sui generis on the quantal form. The porphyrin networks can self-replicate and can form a template for the formation of viroids and prions. The archaeal colony networks are extremophilic networks and can survive in the environment of extreme climates of mass and Venus as well as in interstellar gas. The extremophilic archaeal extraterrestrial

network can secrete RNA viroids which form RNA viroidal quasi-species consortia. The RNA viroidal quasi-species consortia can be edited by archaeal digoxin giving identity and specialization to the network. The archaeal extraterrestrial intelligence impacts on earth by meteoritic showers which give new cosmic genes to the earth. This is the form of cosmic gene transfer. The earth is populated by homo sapiens and the transfer of archaeal and RNA viroidal genes generates the homo neanderthalis. They can be compared to the hybrids described in Biblical literature and other religious texts as the fallen angels, nephilm or the Sumerian annunaki. These are generated by transfer of cosmic genes by archaeal networks mediated by meteoritic impacts. The Neanderthal hybrids that are generated are susceptible to diseases like degeneration, autoimmune disease, metabolic syndrome, cancer and new viral infections. The hybrids are matriarchal, gender equal, have alternate sexual practices, autistic, altruistic, spiritual and with extrasensory powers. These can be called as God astronauts of ancient literature. The first episode of transfer of archaeal and RNA viroidal genes occurred in the ice age and second transfer is occurring in the age of global warming. The Neoneanderthal species of global warming age is produced by cometary transfer of archaeal and RNA viroidal genes. The extraterrestrial intelligence of extensive self-replicating porphyrin networks and archaeal networks generated abiogenically in the interstellar space is comparable to an external God-like force. The porphyrin networks can exist both as wave and particle and can arise from the quantal foam of gravitational waves of consciousness and anti-gravitational waves of unconsciousness which can later generate extensive extraterrestrial intelligence of nanoarchaeal networks. The extraterrestrial intelligence of porphyrin networks generated sui generis from the quantal form can be called the lotus of Brahma. The gravitational waves and anti-gravitational waves of consciousness and unconsciousness create matter by the phenomena of soni-luminescence. This forms what is called as the collective unconscious of Jung or the monads of Leibnitz or the panpsychism where there is no distinction between the consciousness of living and non-living put forward by the Greeks, Hindus and recently expounded by Chalmers.

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The extraterrestrial intelligence is an archaeal colony network created on a porphyrin network that arises spontaneously by wave-particle transformation from the quantal foam of gravitational waves of consciousness and anti-gravitational waves of unconsciousness. The whole process is abiogenetic and is a creation without a creator. The porphyrin arrays can self-replicate, store information and harvest magnetic and light energy from the stars. It can convert light energy to magnetic flops. The magnetic flops interact and control the central

generating element of the 10 quantum bit of the quantum computer. These are analogous to the black cloud of Fred Hoyle and the molecular quantal computing clouds of Tamulis. Long lasting coherent quantal states are possible in the low temperature of the interplanetary dust. The porphyrin network and archaeal network extraterrestrial intelligence can communicate with itself and others by radio waves. The interstellar gas with this porphyrin network and archaeal network can condense at dense sites into stars and planets and give rise to life forms in those systems. The porphyrin network and archaeal network can survive in the extremes of temperature of planetary systems like Mars and Venus and can influence the behavior and future of human civilization with which they can come into contact via transfer by meteoric impacts. Such meteoric impacts occurred in the ice age and at other frequent epochs in the planet's history. The impact in the Ice age gave rise to Neanderthal hybrids with archaeal and RNA viroidal symbiosis by parasitizing with homo sapiens in the Eurasian Steppes. The Neanderthal hybrids had defective cortical function and have a dominant cerebellar function with a different behavioural code. They were matriarchal in the sense the newer genes were of cometary origin. Males and paternal roles were insignificant. This gave rise to the female dominant society. The Neanderthal hybrids because of intermingling with archaeal and RNA viroidal genes were susceptible to autoimmune infection, degenerations, tumours, metabolic syndrome, autism, schizophrenia and deviant sexual behavior. This resulted in rapid elimination of the Neanderthal hybrids from the society of homo sapiens. The Neanderthal hybrids owing to the archaeal and RNA viroidal genes were creative, autistic, savantic, spiritual, inventive, intuitive, scientific, artistic and were the dominant drivers of society. They became the leaders of society and God-like characters directing the flow of civilization. This was possibly mediated by the intervention of the interstellar porphyrin network and archaeal colony extraterrestrial intelligence in the intergalactic space which controls the universe and has a God-like function. Such porphyrin networks and archaeal colony networks of gigantic proportions are feasible in the atmosphere of other planets including earth. There is increased growth of endosymbiotic archaea in homo sapien population owing to global warming. The human body functions as a zombie or caste for the growth of the archaeal symbionts who take over the function of the human brain and its actions. This has resulted in the recent changes in society with globalization, terrorism, the rise of spirituality, anarchism, domination by certain states, lack of democracy, the rise of creativity in technology, art and culture. A new generation of Neoneanderthal hybrids are being generated which are an army of zombies for an extended archaeal terrestrial intelligent network. The archaeal terrestrial intelligent network as an extension of the extraterrestrial interstellar space porphyrin and

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archaeal network is taking over the world and its culture. This will have far reaching consequences to human existence and for the destruction of the human zombies as we see ourselves today. The archaeal colony terrestrial network will survive and the global warming will destroy the human zombies. The human zombie created or engineered behavioural and life style change leading to global warming leads to extension of gigantic growth of the terrestrial intelligent archaeal network. The growth of the terrestrial intelligent archaeal network in the oceans will lead to release of methane gas, rise of ocean levels, tsunamis, earthquakes, destruction of the earth's ecology by global warming and a civilization of zombies as such. The homo sapiens can be considered as zombies controlled by a matrix of terrestrial and extraterrestrial porphyrin and archaeal colony network. This is the world of maya and the human zombies can cut through the illusions and connect with larger world of terrestrial and extraterrestrial intelligence called Gods. We can become psychonauts and connect with the world of extraterrestrial and terrestrial intelligence. Extraterrestrial and terrestrial intelligence of porphyrin networks and archaeal colony network created on porphyrin templates are itself illusory. The porphyrin and template mediated nanoarchaeal colony network have a wave-particle existence and can merge into the quantal foam of nothingness with its gravitational waves generating consciousness and anti-gravitational waves generating unconsciousness. The terrestrial and extraterrestrial porphyrin and archaeal colony network with its RNA viroids quasi-species consortia are variable from time to time. The archaea secretes digoxin which edits the RNA and change the character of the network in response to environment. The network of terrestrial and extraterrestrial intelligence owing to the extreme variability of the RNA quasi-species consortia mediated editing forms intelligence and consciousness which changes from time to time in consonance with the hundred thousand or more superimposed possibilities of the quantal foam. They are the momentary consciousness and not a single wholesome structure. The consciousness of the universe of all objects living and non-living is interconnected forming what is called as a collective unconscious or the world of Maya or panpsychism. There is no death and everything is universal and eternal. Change in consciousness occurs every second and everything is momentary and at the same time long lasting. All the momentary stages of universal consciousness or Samsaras are fixed and are not susceptible to change. The changes in the quantal foam of the universal consciousness get reflected in the particulate terrestrial and extraterrestrial intelligence of porphyrin and archaeal colony network which is subjected to continuous uninterrupted editing by the changes in the codon feature of the RNA viroids. Thus the quantal possibilities of the universal consciousness parallel the ever changing

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structural features of the terrestrial and extraterrestrial intelligence of porphyrions, archaea and RNA viroidal network.

The constant transfer of cometary genes from the interstellar extraterrestrial intelligence of archaea and RNA viroids created on a porphyrin templates generated from the quantal foam of consciousness which can be described as God due to impact of meteors changes the culture, civilization, behavior, sexuality, politics, economics and environment of the homo sapiens and hybrid population in planet earth. This cometary gene interacts with the terrestrial bacteria and viruses creating new bacteria and viruses and new epidemics which define populations and give them identity. The new bacteria and viruses of plant and animal origin give rise to mass extinctions and change the ecology of the planet. And a massive growth of terrestrial archaeal colony network in oceans can lead to earthquake, tsunamis, global warming, drying up of earth, flooding and catastrophic extinction of the human zombie civilization as we know today. The extraterrestrial intelligence and terrestrial intelligence of porphyrin and archaeal colony network will survive in Mars, Earth, Venus, interstellar space and Sun. They are victorious, eternal and God-like. They are like astronauts from the outer space but only bacterial network astronauts. They can be considered as fallen angels send by the extraterrestrial intelligence to modulate the civilization of planets and stars of the universe and creation of hybrid zombies. The hybrid zombie civilizations are destroyed once the use is over. This happens to the Sumerian civilization, the Harappan civilization, the Egyptian civilization and Aztec civilization. This is happening to homo sapien civilization at present created by the crisis of global warming due to terrestrial archaeal colony networks. The zombies will end but the masters and the Gods of extraterrestrial porphyrin and archaeal colony network survive. The networks are protoplasmic and robotic bodies and can go back to their energy bodies of nothingness and merge into the quantal foam. This is the world of Maya where nothing exists and we can cut through the illusions and reach the world of Maya and connect with it. This may provide a hope for saving the human civilization of zombies with their archaeal colony networks increasing at astronomical spaces and speeding on to an end of catastrophe.

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The extraterrestrial archaeal network with its secreted RNA viroids gives rise to eukaryotes, prokaryotes, multicellular organisms, primates and humans. The archaeal network secreted RNA viroids are edited by archaeal digoxin producing identity for different RNA viroidal quasi-species consortia. The RNA viroids can get converted into complementary DNA sequences and get inserted into archaeal genome. This produces

varying diversity of extraterrestrial and terrestrial porphyrin and archaeal intelligent networks. The human and other multicellular organisms are structured by the endosymbiotic extraterrestrial and terrestrial archaeal network to produce species evolution and identity. The eukaryotes and prokaryotes evolve from the archaea by genomic changes induced by integrated complementary sequences of digoxin edited archaeal RNA viroids. Thus the extraterrestrial and terrestrial archaeal intelligent species network is capable of evolving to prokaryotes, eukaryotes, multicellular organisms, primates, plants, animals and humanoids. These are all zombies or structures for the extraterrestrial and terrestrial archaeal and porphyrin intelligent networks to survive and utilize. The terrestrial and extraterrestrial porphyrin and archaeal networks can have a wave-particle duality and can merge into the quantal foam and exist as intelligent quantal beings. They can be called as terrestrial and extraterrestrial intelligent quantal beings with multiple superimposed possibilities cohabiting multiverses at the same point of time. This raises the question of the nature of life itself. Life is a virtual reflection of the porphyrin networks intelligent species that arises out of the quantal foam of nothingness and can dissolve into it. This constitutes what is called as the world of Maya. There is only one life form the terrestrial and extraterrestrial intelligent porphyrin and archaeal networks which can have an energy existence or a particulate existence. All other life forms and inanimate forms arise out of it and are reflections of it and interconnected throughout the universe by the phenomena of quantal spin and quantal entanglement and non-local interaction. Everything in the universe exists everywhere at every point. Time is an illusion.

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The terrestrial and extraterrestrial networks of porphyrin arrays and archaeal networks can influence earth by being transported to the terrestrial habitat by meteoritic showers. This induces fresh infusions of cometary genes into earth and other planetary systems. These are genes from the extraterrestrial porphyrin and archaeal networks which arise out of the quantal foam and induce the formation of star systems and planetary systems. They can be compared to a collection of lotuses in the ocean of galaxy. The lotuses being porphyrin arrays which have a wave and particle existence. This can be called as lotus of Brahma or the God of creation in a metaphorical sense. The infusion of cometary genes from this extraterrestrial porphyrin and archaeal intelligent networks with God-like qualities into the earth affects the homo sapien and primate population. This results in creation of newer species with God-like characteristics who assume leadership in societies like Gauthama Buddha and Jesus Christ. They are induced by cometary genes from the extraterrestrial porphyrin and archaeal

intelligent network. Such hybrid populations in the earth can be called as Neanderthals or Neoneanderthals due to changed characteristics consequent to extraterrestrial archaeal symbiosis. They form leaders in society and guides civilization. Civilization progresses due to infusion of genes from the extraterrestrial intelligent porphyrin and archaeal networks. The appearance of meteors and comets signify the infusion of cometary genes from the ultimate extraterrestrial porphyrin and archaeal network. These extraterrestrial porphyrin archaeal networks in the interstellar gas can also condense to form stars and planets. These networks as said before have a wave energetic form and a particulate form and are the mode of creation and destruction of the universe. Excessive growth of extraterrestrial archaeal networks in earth due to methanogenesis creates global warming and extinction of civilization. The extraterrestrial archaeal networks fission and fusion reaction fuel star systems as well as mediate their extinction. The extraterrestrial magnetite archaeal network is responsible for the intergalactic magnetic field in the galaxy and contributes to the formation of star systems. The extraterrestrial porphyrin and archaeal networks with their energetic and particulate bodies participate in the dance of creation and destruction of the universe and can be compared to the Hindu God Shiva.

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The archaeal and porphyrin extraterrestrial network is intelligent and occupy the interstellar space and communicates with all galaxies, planets and star system by the phenomena of quantal non-local interaction and contributes to what is called as the collective unconscious or God. The extraterrestrial porphyrin and archaeal network form the centre of the interstellar gas and can condense to form stars and planets. Stars are fueled by fission and fusion reaction in the archaeal networks of interstellar clouds of hydrogen. Thus the stars and planetary systems are alive and humanoid having a natural history of their own with life and death. The Hindu Gods and Rishis are fixed and attached to planetary and star systems. This would be a reflection of the impact of the extraterrestrial archaeal intelligence and the transfer of cometary genes to other planetary systems including earth. The extraterrestrial porphyrin and archaeal intelligent networks can build up the interstellar space, in other planets like Mars and Venus and other star systems. Intelligent civilization already exists in star systems and galaxies all over the universe. They are made of the extraterrestrial porphyrin and archaeal intelligent networks. The same extraterrestrial and induced terrestrial porphyrin and archaeal network gave rise to the zombie civilization of plants, bacteria, viruses, animals, primates and humans in earth with the terrestrial archaeal and porphyrin intelligent network as the real eternal structure. The zombie forms change from time to time. The terrestrial

archaeal and porphyrin network having an energy/wave particulate existence is eternal. Similar extraterrestrial archaeal and porphyrin intelligent network induced civilizations or the networks per se acting as civilized entities controlling the universe exists all over the galaxies and universe. This can be called as the God being. The transfer of cometary genes from the extraterrestrial porphyrin and archaeal network due to meteoric and cometary showers can be considered as visitations of the extraterrestrial archaeal intelligence to planetary systems and star systems to modulate such systems. They can be called as God astronauts in metaphorical sense. The human civilizations can be considered as zombies for the extraterrestrial archaeal intelligent network. The human zombie's creativity, leadership qualities and intelligence are proportionate to the infusion of cometary genes. The human zombies with the highest density of cometary genes from the extraterrestrial archaeal intelligent network are neanderthalic and dominate societies as kings and leaders. They are autistic and intelligent and form scientist, writers, poets, painters, dancers, artists and all creative icons of civilizations. They can be called as the illuminati of earth or the agents of the extraterrestrial archaeal intelligent network controlling the earth. The terrestrial history and civilization is also modulated by infusion of cometary genes by meteoric impacts from extraterrestrial archaeal intelligent network. This alters the genomic patterns of the homo sapien population by the archaea and the secreted RNA viroids. This results in reduction in cerebral cortical function, logical thinking, civilized behavior and humanity as we know it. The society becomes cerebellar dominant and impulsive. The brain becomes a prisoner of surrealistic and transcendentalistic urges. This creates abstract art, anarchy, terrorism, sexual anarchy, alternate sexuality, rock music, globalization of culture and spirituality. This also leads to violence, terrorism, revolutions and wars which creates a sort of transcendence similar to spirituality. The world is dominated by impulsive people without logical thinking and with dominant extrasensory perception. The world becomes anarchy and globalized with uniformity in human behavior and thought. The changes in society are brought about by increase in archaeal growth and increased transfer of extraterrestrial archaeal intelligent networks starting from the ice age. The Neanderthal hybrids were creative and created changes in society leading to an industrial revolution and a technological revolution contributing to global warming and extremes of temperature which leads to further growth of terrestrial and extraterrestrial archaeal intelligent networks. The aim of creating human zombies or hybrids that are creative could have been to create an environment which leads to further expansion of the terrestrial and extraterrestrial intelligent porphyrin and archaeal networks. The expansion of the terrestrial archaeal networks produces methanogenesis, global warming and further growth of terrestrial

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archaea. The growth of terrestrial archaea in the ocean beds can lead to earthquakes, continental drifts, tsunamis, rise in water levels, flooding and global catastrophe ending the universe and human zombies as we know of today. The terrestrial and extraterrestrial network of porphyrin and archaeal intelligence will continue till eternity. They can have a wave-particle existence reverting to their energy body or wave body when required and coming back to particulate existence from the quantal foam when required creating stars, planets and life again. This is the dance of life and death- the dance of Shiva.

The Biblical literature can be interpreted in terms of extraterrestrial archaeal networks and Neanderthal hybrids. The extraterrestrial archaeal networks contacts the terrestrial system via meteoric and cometary impacts. The homo sapien females with archaeal symbiosis give rise to Neanderthal hybrids. The homo sapien population have less of archaeal density and different characteristics. The Neanderthal hybrids were creative and autistic and became the rulers of society and kingship developed owing to the groups increased intellectual and physical abilities. The homo sapien females with archaeal symbiosis gave rise to Neanderthal hybrids and they were considered as equivalent to mother goddess in certain societies or as manifestation of Shakti. This gave rise to a matrilineal society and female dominance. The extraterrestrial archaeal network which forms stars and planetary system can be considered as a representative of Shiva and the female homo sapiens with archaeal symbiosis giving rise to Neanderthal hybrids can be considered as a consort of Shakti. The common homo sapiens viewed the Neanderthal hybrids with suspicion as they were different from the general population and dominant, ruling over them with their physical and intellectual ability. The common homo sapiens organized themselves as the church against Neanderthal hybrids which formed the state or kingship. The common homo sapiens considered the interbreeding of homo sapien females with extraterrestrial archaeal networks as original sin and the extraterrestrial archaeal networks contacting the earth via cometary impacts as fallen angels. The common homo sapiens considered sex as taboo and society was organized to prevent inter-breeding with Neanderthal hybrids. Hybrids were intelligent, creative, domineering with sexual freedom which was considered as sinful by the common homo sapien population and the church. Therefore the position of women in the common homo sapien society with cerebral cortical dominance was inferior, sexual activity was sinful and society was patriarchal with strict moral codes. The Neanderthal hybrids on the other hand, were cerebellar dominant impulsive creatures with sexual freedom, loose moral codes and a communal life with matriarchal structure of society. The matrilineal societies with archaeal

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symbiosis are the Celts, Basques, Berbers, Jews, Sumerians, Dravidians and ancient Egyptians and they were all communal groupings of Neanderthal hybrids and dominated civilization for decades. This is noticed in the Egyptian civilization of Pharoahs, the Sumerian civilization, the ancient Jewish civilization, Assyrian civilization, the Iranian asuric civilization, Aztec civilization and the Harappan civilization. The Indian caste system is based on the phenomena of Neanderthal hybrids. The Neanderthal hybrids formed due to contact with the extraterrestrial archaeal networks consequent to meteoric impacts formed the upper caste of Brahmins and Kshatriyas. The common homo sapien population formed the Sudras. The Neanderthal hybrids of the upper caste ruled over the society and kept a common homo sapien population of lower caste as slaves. Breeding laws were made and a caste groups made water tight to keep the purity of the Neanderthal hybrids. The common homo sapien population all over the world retained its patriarchal moorings and male dominance and became predominantly Christian and Muslim. These societies were cerebral cortical dominant, civil societies were equality and respect for people was the norm. The Neanderthal hybrids with the creativity and extrasensory powers became Hindus, Buddhists and Jews. These societies were divided on the basis of caste and for the necessity of keeping the Neanderthal hybrids pure and compact. The Sumerian texts, the Egyptian papyrus, the Rig veda, the ancient Jewish testaments, the Assyrian literature are Neanderthal hybrid in origin and contains version of the extraterrestrial archaeal networks of the interstellar space giving rise to stars and planetary system. The Gods of Egypt, Hindus, Assyrians and Jews are connection with the stars. This can be noted in the ritual of pagan religions like those in Stonehenge, the rituals of Hinduism and those of ancient Egypt as well as Aztecs which had relation to the star systems indicating contact with extraterrestrial intelligent archaeal networks. The Neanderthal hybrids have cerebellar dominance and cerebral cortical dysfunction and could attain transcendence to the collective unconscious and connect with the extraterrestrial archaeal particulate or energy network with ease. Most of the religious spiritual leaders could have been Neanderthal hybrids. The kings and warriors were also Neanderthal hybrids. The act of war or the act of killing gives a sense of transcendence and merger with the collective unconscious as seen in the Bhagavad Gita where the act of war is considered as a dharma and leads to transcendence. The cortical function of logical thinking is obliterated. The Nazis including Hitler and Himmler believed in the philosophy of the Bhagavad Gita which justified the world wars as an act of dharma. There is also the concept of avatars of Vishnu descending from the heaven to save mankind. This includes Krishna and Buddha. They can be considered as Neanderthal hybrids bred in contact with the

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extraterrestrial intelligent archaeal colony particulate or energy network mediated by archaeal colony astronauts showered on to the earth by meteoric impacts. All the political revolutions on earth had a neanderthalic hybrid leadership- Nazism, Fascism, Communism, the French revolution and the royal kingship. The French revolution and communist revolution despite its egalitarian ethos were basically led by Jews. The modern revolution of the dissolution of nation states and globalization of capital and economy also has a Jewish leadership of Neanderthal hybrids. The technological revolution of the internet which powers the globalised world is also dominated by the impulsive cerebellar dominant Neanderthal hybrids. Low level of EMF fields of the internet can increase archaeal growth and archaeal magnetite mediated perception of low level EMF producing cortical atrophy and cerebellar dominance which can be transmitted genetically. The internet revolution is powered by Neanderthal hybrids who are basically autistic and have extrasensory perception due to higher brain density of archaeal magnetite. The Neanderthal hybrids dominate the world with their intellectual and physical superiority and can be considered as a universal ruling caucus or illuminati.

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The modern day neanderthalic religion mediated by the intergalactic archaeal molecular quantum computing cloud includes Hinduism, Jewish Kabala, the Islamic Sufism, the Christian Gnostism and the Zen Buddhism. These are all cerebellar cortical religions. They have an extraterrestrial content, are impulsive, loose, ritualistic, sexual, sensual and primitive. The correlates of these can be surrealism, matriarchal, global, violence, gender equal, alternate sexuality, non-democratic and with extrasensory quantal perception. They are environmental friendly and worship environment as God. They are prone to civilizational diseases like tumours, metabolic syndrome, degenerations, psychiatric illness and autoimmunity and in that sense were considered by the homo sapien secular religions as satanic. They are equivalent to the vampires, the demons, the elf, the goblins and Asuras. The homo sapien secular religions include the Wahabi Islam, modern communism and the protestant and Roman Catholic Christianity. The homo sapien religions are cerebral cortical religions of civil societies. These homo sapien religions give a civilized code of social conduct. The correlates of it are non-violence, ahimsa, morality, patriarchal, female-suppression, gender inequality, strict heterosexual moral codes and anti-environmental.

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CHAPTER 8

EXTRATERRESTRIAL INTELLIGENCE PANDEMICS AND THE SHAPING OF HUMAN SOCIETY – CATASTROPHIC VIRAL PANDEMICS AS A CONTINUING EVOLUTIONARY CRO-MAGNON HOMO SAPIEN–NEANDERTHAL CONFLICT

Introduction

The extremes of climate change produce endosymbiotic archaeal growth. The archaea are cholesterol catabolising organism. This results in neanderthalisation of the human species. This occurred during the ice age and is possibly a continuing phenomenon during the periods of global warming. The homo neanderthalis are matrilineal and the residual matrilineal societies of the Dravidians, Khazar Semites, Basques, Celts and Berbers are neanderthalic. The global warming produces endosymbiotic archaeal growth and neanderthalisation. This produces brain changes with the cerebral cortex becoming dysfunctional and cerebellum becoming dominant. This is due to increased perception of low level EMF by archaeal magnetite. This produces changes in human society, behavior and disease patterns.[1-17] The homo neanderthalis population is susceptible to civilizational diseases like schizophrenia, autism, metabolic syndrome X, diabetes mellitus, coronary artery disease, stroke, neurodegeneration and autoimmune disease. The homo sapien population suffers from endemic depression and lack of creativity with a propensity to develop recurrent infections. The homo sapien population is relatively protected from civilizational diseases. The Neanderthals consequent to archaeal symbiosis can generate new viruses serving as viral reservoirs. The archaeal endosymbiosis in Neanderthals produces stem cell transformation protecting the stem cell reservoirs of viruses from immune attack. These newly generated viruses in homo neanderthalis to which they are immune can attack and exterminate the homo sapien population.

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There is an eternal conflict between Neanderthals and homo sapiens. The Cro-magnon tried to exterminate the Neanderthals but they survived as south Indian matrilineal societies, eastern oriental civilization of China and Japan, the upper caste Indians of north, Khazar Jews, Basques, Celts and northern Europeans. The underclass/caste and tribals of Indian and European civilization, Semitic Jews and Muslims as well as Africans were homo sapiens. With the advent of global warming and increasing archaeal symbiosis the neanderthalic population becomes activated and they try to exterminate the homo sapiens section of population. The symbiotic archaea generates new viruses which infects the non immune Cro-

magnon and tries to exterminate them. The hot spots of global conflict and terrorism can be localized to neanderthalic areas. The Neanderthal relition is paganistic and dominates Hinduism and Buddhism. The homo sapiens are predominantly the Semitic Jews, Muslims, Africans and the Slavic Europeans. They follow the Christian and Muslim religion. World conflicts are basically between the neanderthalic races and the Cromagnon races.

There is a high incidence of autism and Neanderthal anthropometric phenotypes in the nair community of Kerala. The nair community is matrilineal and is one of the few functional matriarchies in the world and speaks the Dravidian language with similarities to Celtic, Scythian, Berber and Basque societies. The autistic brain is comparable to the large sized Neanderthal brain. Autistic and matrilineal societies like nair can be considered as fossilized remnants of the Neanderthal population. Endosymbiotic actinidic archaea using cholesterol as an energy substrate has been described in systemic disease from our laboratory. The autistic and nair population were studied for actinide dependent cytochrome F420 activity suggestive of endosymbiotic archaeal growth.[1-17] This hypothesis was studied by evaluating the endosymbiotic archaeal growth in populations derived from matrilineal societies.

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Materials and Methods

Three groups, 25 numbers in each group were chosen for the study- the autistic population diagnosed according to DSM criteria, the normal nair population and the normal non-nair population. The matrilineal characteristics and Neanderthal anthropometric characteristics of normal nair and non-nair population as well as autistic population were studied. The blood samples were drawn in the fasting state before treatment was initiated. The estimations done in the blood samples collected include cytochrome F420 activity, Cytochrome F420 was estimated flourimetrically (excitation wavelength 420 nm and emission wavelength 520 nm). The statistical analysis was done by ANOVA.

Results

The results of the study were as follows. The nair and autistic and civilisational disease group had increased cytochrome F420 activity.

Table 1. Incidence of autism in Nair, autistic and non-Nair population

Groups	Autism	Percentage
Nair	68 cases	68
Non-Nair	32 cases	32
Total	100	

Table 2. Anthropometric features in Nair, autistic and non-Nair population

Groups	Neanderthal anthropometric	Total	Percentage
Nair	72 cases	100	72
Non-Nair	21 cases	100	21
Autism	81 cases	100	81

Table 3. Neanderthal metabolonomics

		Nair	Non-Nair	Autism	F value	P value
Cytochrome F 420	Mean	4.00	0.00	4.00	0.001	< 0.001
	± SD	0.00	0.00	0.00		

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Discussion

Neanderthalisation is a symbiotic event due to archaeal symbiosis. The Neanderthals had increased symbiotic actinidic archaeal growth. This occurs in extremes of climate like ice age and global warming. The homo neanderthalis evolved from the bonobo primates consequent to this symbiosis. There is increased neanderthalisation of homo sapiens during global warming consequent to increased actinidic archaeal growth. The homo neanderthalis never became extinct but survives as matrilineal societies in the lower Eurasian region. The initial matrilineal neanderthalic civilizations were the Harappan, Sumerian-Akkadian, Assyrian, Etruscan, Minoan, Celtic, Basque, Khazar Jews, Australian aboriginal civilization. The civilizations are all matrilineal. The initial neanderthalic civilization survives as the south Indian matrilineal Dravidians, Australian aboriginals, the Persians, the Berbers, the Basque, Greeks, Celts, north Europeans, oriental east Asians of China and Japan, American white protestants and native Americans. The people inhabiting these civilizations are religious, intuitive, feminine, child-like, dreamy, somnolent, communal conscious, primitive socialistic, more sexual groups. The body habitus of these populations are shorter, sloping forehead,

recessive chin and more fairer in colour. This is opposed to the Cro-Magnon population in the northern part of Eurasia and Africa. These populations are scientific, logical minded, patriarchal, more adult-like, more wakeful, fascist and less sexual. The neanderthalic populations inhabit the Indian ocean rim in southern Asia, west Asia as well as in the peri-mediterranean region. The Neanderthals originated initially from the mythical lemurian supercontinent in the Indian ocean. The earthquakes and tsunamis in the Indian ocean led to the breakage of the supercontinent and migration of Neanderthals to Harappa, Sumeria, Egypt and Basque. The Harappan civilisation was predominantly neanderthalic. They are the asuras described in the Rig veda. Most of the descriptions in the Rig veda pertain to the asuras with the Rig vedic Gods being predominantly asuric. Sanskrit was possibly the Harappan language. The Asuras and Devas both belong to Harappa-Mohenjadaro. Sanskrit and Rig Veda were part of the culture of Harappa-Mohenjadaro and there was continuity till the present day. The Devas and asuras are described interchangeably in the Rig Veda and they are one and the same, Shiva and Varuna have been called as Nagas and Asuras. The Naga, the Asura, the Deva, the Aryans and the Nephilim are one and the same and native to Harappa-Mohenjadaro. The Harappan civilization of the asuras, Nagas and Aryans were extremely advanced and the Cro-Magnon homo sapiens were a primitive nomadic tribe which invaded the Harappan-Mohenjadaro civilization contributing to its destruction. The Cro-Magnon originated in Africa and migrated to Eurasia. The Cro-Magnon population subdued the neanderthalic population and tried to exterminate them. There was also interbreeding and intermixing between the Cro-Magnon and neanderthalic population. The modern neanderthalic societies are in the peri-Indian ocean area of India, Iran and Europe. They also inhabit the peri-Mediterranean area as south Asian Dravidians, upper caste north Indian Hindus, Khazar Jews, Berbers, Basque and Celts. The Neanderthals are also seen in north Europe, white America and oriental Chinease and Japanese. The predominant African, Muslim, Jew and Indian lower caste and tribal population is Cromagnon or homo sapien.

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There is an eternal conflict between Neanderthals and Cromagnon. The Cromagnon tried to exterminate the Neanderthals but they survived as remnant societies of south Asian Dravidians, upper caste north Indian Hindus, Khazar Jews, Berbers, Basque and Celts as well as in north Europe, white America and oriental Chinease and Japanese and native Americans. The lower caste and tribals of Indian, semitic Jews and Muslims and Africans are homo sapiens. With the advent of global warming an increasing archaeal symbiosis the neanderthalic population becomes activated and they try to exterminate the Cro-Magnon. The

symbiotic archaea generates new viruses which infects the non immune Cro-Magnon and tries to exterminate them. The hot spots of global conflict and terrorism can be localized to neanderthalic areas. The Neanderthals dominate three world religions- Jews, Muslims and Hindus. The Cro-Magnon are predominantly the Africans Jews and the Muslims. They follow the Christian, Jewish and Muslim religion. World conflicts are basically between the neanderthalic races and the Cro-Magnon races. This is exemplified by the Jewish leadership of the Russian and French revolutions with its idea of liberty, equality and fraternity. The neanderthalic ideas basically tried to create an equal society. The Buddhist movement and Hindu religion of Nagas, Asuras and Devas can be thought of as a neanderthalic. The present rumblings in the Muslim Semitic world manifesting as global terrorism is a reflection of the neanderthalic Cro-Magnon conflict. The conflict is basically between the Cro-Magnon ideas of colonization, capitalism, free market globalization, rightist, fascist, nazi ideas and the neanderthalic ideas of equality, democracy, freedom and socialism. The cro-magnic civilization produces increased greenhouse gases leading to increased endosymbiotic archaeal growth. Endosymbiotic archaeal growth is the basis of neanderthalisation. Neanderthalisation is a symbiotic event and not a genetic change. This results in expansion of the existing neanderthalic societies- the Semites, the Dravidians and southern Europeans and extinction of the Cro-Magnon Aryan phenotype. The present neanderthalic areas include Europe, India, Iran, America, oriental east Asians and the Australian aboriginals. The Cro-Magnon areas include semitic middle-east of Muslims and Jews and Africa.

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The Neanderthals were cerebellar dominant. The cerebellum is concerned with intuition and extrasensory perceptive phenomena. The Neanderthals were retroviral resistant. The archaea metabolises cholesterol and generates digoxin which produces membrane sodium potassium ATPase inhibition and intracellular magnesium deficiency. Magnesium deficiency produces reverse transcriptase inhibition. Digoxin itself modulates RNA editing. The retroviral resistance leads to a deficiency of endogenous retroviral sequences. The endogenous retroviral sequences function as jumping genes required for the dynamicity of synaptic connectivity. Dynamic synaptic connectivity is required for cortical function. The cerebral cortex is dysfunctional in Neanderthals leading to cerebellar dominance. The Neanderthals inhabit a cerebellar world. The neanderthalic population is psychedelic, spiritual, dreamy, more feminine, intuitive, equal and female dominant. They had a communal life. They were hyper sexual and promiscuous. They can be compared to bonobo monkeys. They were matriarchal and female dominant. They are child-like have dreamy

sleep, somnolent, altruistic and docile. The neanderthalic population believed in communal living and was of hyper sexual behavior. The unconscious mind was dominant in Neanderthals. They had precognition and postcognition. They had telepathy and clairvoyance. They could have mediumistic possession and could go into hypnotic regression. They had poltergeist phenomenon, group personality, multiple personality, split personality alien abduction phenomena, memory of past life, incubus and succubus. They had a magical civilization of dreams. They were subjective, personal, emotional, irrational and dreamy. They preferred the dark and nights. They had more of autism and schizophrenia. They had more of attention deficit hyperactivity and addiction. They were magical, had dominant art and religion were sexual and believed in things without proof. The belief was intuitive. They had shamanistic and magical consciousness. The Neanderthals were left handed and right hemisphere/cerebellar dominant. They were creatures of the senses and created a spiritual dreamy civilization. They were children of the dark. The self old brain of vampires, troglodytes, demons and the occult belongs to the Neanderthals. The cerebellar dominance and hypertrophy leads to cerebellar dysfunction and ataxia of speech as well as motor movements. Ataxic speech leads to the evolution of music. Ataxia of motor movements leads to abstract art. Thus the Neanderthal brain with its extrasensory perception is extremely artistic. Digoxin and dipolar magnetite in the setting of membrane sodium potassium ATPase inhibition produces a pumped phonon system modulating quantal perception. Quantal perceptive phenomena are dominant in Neanderthals. This leads to increased extrasensory perception. This also produces a feeling of oneness and equality called the collective unconscious. This produces the socialistic equal Neanderthal society. The Neanderthals were also more spiritual and unconscious dominant. The cortical dysfunction leads to loss of hemispheric differentiation and sexual differentiation. Right hemisphere is predominantly masculine and the left hemisphere feminine. This results in asexual behaviours and cerebellar dominance leads to hypersexuality. The Cromagnon population believed in pair bonding and family patterns. They were more violent and aggressive. They were patriarchal and male dominant. They were adult-like and logical. They had rightist and fascist tendencies. They were conservative in their sexual practices. They were conscious, egoistic, wakeful, male dominant, favoured the light, objective, impersonal and cruel. The conscious logical brain dominated. They depended upon proofs, logic were detached, asexual and male dominant. The Cromagnon were predominantly left hemisphere dominant and right handed practical people. They created a material civilization. They had a rational consciousness. They were children of the light.

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The global warming produces endosymbiotic archaeal growth and neanderthalisation of homo sapiens. All these produce a dualistic consciousness. The left wing versus right wing and the conservative versus liberal. It produces a double self and divided self. It results in a Caine and Abel as well as Jekyll and Hyde personality. The Neanderthals had sloping forehead, small jaw, occipital bun and large cranium. They were shorter in height and the body weight was bigger. The brain size of Neanderthals was larger. The second toe of the feet was bigger than the big toe. They had the simian crease. The homo sapiens had a smaller brain and smaller cranium. They were taller.[1-17]

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CHAPTER 9

THE DASHAVATAR- INTERSPECIES HYBRIDISATION, CHIMERAS AND PARTHENOGENESIS– ORIGIN OF HOMO NEANDERTHALIS AND REGRESSIVE EVOLUTION

Somatic parthenogenesis occurs due to transformation of the somatic cell to pluripotent stem cell which can develop to parthenogenetic embryos. This results from hybridisation between two different species homo neanderthalis and homo sapiens. This interspecies hybridisation produces intragenomic conflict and parthenogenesis. Parthenogenesis can be induced by stress of climate change and by endosymbiotic archaea and RNA viroids. The intragenomic conflict consequent to interspecies hybridisation results in upregulation of the tryptophan catabolic pathways produces increased amounts of kynurenine, immunosuppression and immune escape of the parthenogenetic embryos. The interspecies hybridisation and intragenomic conflict results in reptilian gene expression and digoxin synthesis. The digoxin produced by endosymbiotic archaea results in upregulated tryptophan transport and catabolism over tyrosine. The increased kynurenine catabolism in Neanderthals results in immune escape and endosymbiotic archaeal growth. The endosymbiotic archaeal growth results in neanderthalisation of the species. The neanderthalisation of the species and interspecies hybridisation and intragenomic conflict results in porphyrias and increased porphyrion mediated low level EMF perception, cortical atrophy and cerebellar dominance. This produces a cerebellar cognitive affective disorder with autistic features, impulsivity, aggressiveness, power lust, increased sexual desire, alternate sexuality, criminality, cannibalistic features and anarchic social mores. The Neanderthal species owing to endosymbiotic archaeal growth and stem cell transformation had an asexual mode of reproduction with parthenogenesis. This results in female dominance, Amazonian syndrome, a culture of male eunuchs and matriarchy. The interspecies hybridisation and intragenomic conflict results in a SLOS phenotype with decreased cholesterol synthesis. This produces decreased sex hormone synthesis resulting in asexuality and alternate sexuality. The Neanderthals were matriarchal and worship the mother Goddess. The reptilian gene expression and SLOS phenotype results in generation of serpentine features. The genes for the primitive reptilian brain complex get expressed with aggression, violence, impulsivity, cannibalism, anarchy, immorality, lust for power and dominance. The SLOS phenotype results in development of primitive features like the development of tail or cauda, cleft chin, prominent thin long teeth and canines, freckles, scales in the skin and

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syndactly or webbing. The digoxin synthesis and decreased tyrosine transport results in reduced dopamine and melanin synthesis contributing to a tribe of anarchic white Gods. The reptilian gene expression and digoxin synthesis leads to sympathetic hyperactivity and ability to regulate the body temperature in alignment with environmental temperature producing cold bloodedness. The archaea induced fructolysis and fructosemia owing to induction of aldose reductase results in increased lipid and mucopolysaccharide synthesis and hibernation syndrome contributing to obesity and increased subcutaneous fat like reptiles. The evolution of cervical rib, the widow's peak in the eye brows and prominent second toe in the feet is due to increase of recessive traits consequent to inbreeding. The inbreeding results from the autistic phenotype and reduced social contact and social withdrawal. This autistic phenotype with the inbreeding and parthenogenesis leads to decreased genetic diversity and extinction of Neanderthals. The Neanderthals have increased subcutaneous fat, scaly skin which is partly due to albinism and UV exposure as well as due to cholesterol synthetic defect, increased salt secreting eccrine sweat glands and dominant tryptophan pathway and serotonin synthesis producing pineal gland or third eye. The increased tryptophan catabolism produces an epidemic oshtoran syndrome. The neanderthalisation produces an epidemic anarchic syndrome. The neanderthalisation also produces the syndrome of male eunuch and matrilineality. The Neanderthals were mostly parthenogenetic. The cerebellar cognitive affective disorder and actinidic archaeal magnetite and porphyrion induced quantal perception resulted in equality and universality. The primitive Neanderthal tribes are represented by the Saxons, Sakas, Basque, Etruscans, Dravidian races, the Celts and Berbers. The most dominant Neanderthal tribe is the Anglo-Saxons which created an equal society with a universal culture which is American, a universal language which is English, an universal monetary system represented by the dollar and the unification of all ethnicity in the American dream of tolerance and inclusiveness. The Neanderthals had serpentine features and Neanderthal cultures all over the world is represented by serpent worships as seen in Sumeria, the Dravidians of South India, Thoth of Egypt and in Mexico. The Naga tribes and Naga lore of South India represents the Neanderthal culture. The modern version of serpent worship is seen in the symbol of medical profession, the representation of the dollar and in free masonry. Free masonry of the Anglo-Saxons incorporates all religions and is the first universal religion and is neanderthalic. The neanderthalic populations were represented by particular blood groups, the universal donor O Rh –ve and AB Rh –ve, the universal receiver.

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The Neanderthal phenotype gives clues as to the origin of the humans. The Naga tribes of South India were hypothesized to originate in the ancient Lemurian landmass which got broken up by tsunamis and earthquakes. The remnants of the Neanderthal phenotype are seen in the Australian aboriginals, the New Zealandian Maoris, the Dravidian Tamils and Nairs. These societies are predominantly matriarchal and serpent worshipping. The homo neanderthalic possibly arose in the Lemurian oceanic landmass supporting the theory of the aquatic ape origin of humans. The accepted theory of human origin postulates the origin of humans from primates in the African savannahs. Several points give clue to an origin of the human species in water. The neanderthalic behaviour can be compared to the behaviour of the bonobo monkeys or lemurs seen in the ancient Lemurian continent. The homo neanderthalis would have originated from the bonobo monkeys in the Lemurian backwaters communicating with the sea. The bonobo monkeys owing to shortage of food would have started foraging the backwaters and sea for fish and tubers of water lilies. The fish contains essential fatty acids like docosa hexaenoic acid and tubers contain plenty of carbohydrates. The brain is exclusively dependent on carbohydrates and ketone bodies for energy. The essential fatty acids increase the brain growth. The brain growth in humans is called encephalisation which is more than in primates and is equivalent to sea mammals like the dolphin and whales. The bonobo monkeys would have waded into water and stood in water generating the phenomena of bipedalism. This would have freed their hands to catch fish and break shellfish to generate food. This would also have freed the hands to collect and eat the tubers of water plants. The human species lack hair unlike the primates but like the aquatic mammals. The human species have increased subcutaneous fat like aquatic mammals and unlike primates. The human beings have got eccrine sweat glands and tear glands useful in a watery environment. The human trachea is placed down in the neck unlike that in primates where it is more nasal. The human language points to an aquatic origin for human species. For the human language to develop you have to consciously control your breathing which does not exist in primates but in humans and aquatic mammals. The humans have the diving reflex. The smooth skin with sparse hair and thick subcutaneous fat for insulation points to an aquatic origin for humans like aquatic whales and dolphins. The webbed feet and hands also point to an aquatic origin. The sebaceous glands with its greasy secretion point to water-proofing in humans and an aquatic origin. The homo neanderthalis unlike the homo sapiens is more of an aquatic swimming type. The homo neanderthalis had longer lungs and increased respiratory capacity which helped them to dive into water and float in water. The homo neanderthalis owing to their SLOS phenotype and albinism had vitamin D deficiency.

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Vitamin D is synthesized from cholesterol. The homo neanderthalic bone was thin as compared to the darkened vitamin D rich homo sapiens. The long lungs and the thin bone helped the homo neanderthalis to float in water. The origin of paranasal sinuses were for the human species to hold its head above water. The human beings sexual behaviour is like aquatic mammals and unlike primates with front to front population. All these differences point to an aquatic origin for the human beings or an aquatic ape hypothesis. The homo neanderthalis originated from the bonobo Lemurian monkeys which waded into water to search for food. The bonobo monkeys sexual behaviour and promiscuousness and alternate sexuality are comparable to homo neanderthalis. The homo neanderthalis arises owing to archaeal endosymbiosis. The waters of the ocean and backwaters are rich in marine archaea which are capable for acetogenesis and methanogenesis. The backwaters and sea of the South Asian peninsular landmass is rich in actinides, the bathyarchaeota. They are capable of acetogenesis and are a source of organic carbon. The actinides would have formed scaffolds for the formation of complex life molecules like RNA, DNA, protein, isoprenoids and complex carbohydrates. This would have produces RNA viroids, DNA viroids, isoprenoid organism and prions on actinidic surfaces which would have symbiosed to form archaea and eventual multicellular organisms. The multicellular organisms arising on abiogenetic actinidic surfaces in the backwater-ocean connections seen in Southern peninsular India which broke away from the Lemurian landmass would have evolved into eukaryotes, prokaryotes, multicellular organisms and symbiotic plants/animals. The bonobo Lemurian monkeys would have evolved into homo neanderthalis by archaeal endosymbiosis in the actinidic shores of backwaters, lakes and oceans of peninsular India. The remnants of homo neanderthalis is seen in Australian aboriginals, Maoris and Dravidians which are all matriarchal and serpent worshipers. The aquatic ape and homo neanderthalis would have evolved in the actinidic sand shores of backwaters and lakes of Lemuria and peninsular India. The Dravidian communities are matriarchal and female dominant. There is a high degree of consanguinity and inbreeding in the Dravidian matrilineal communities. Parthenogenesis would have been dominant in such communities with matriarchy producing syndromes of the male eunuchs and oshtoran syndromes. The homo neanderthalis ate a carnivorous diet. The teeth were longer compared to homo sapiens and the canines were prominent comparable to fangs of snakes. The cows and bulls were domesticated by the homo neanderthalis which were originally hunters and warriors hunting on mammoths. The domestication of cows and bulls resulted in a high consumption of milk and meat including beef. This resulted in the generation of a lactose tolerant adult population. The gene for lactose tolerance arose 12,000

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years ago. The relationship between the cows and Neanderthals could be described as parasitic obligate symbiosis. The origin of cow worship and bull worship in peninsular Indian religions can be related to it. The increased consumption of a carnivorous diet of milk and meat resulted in increased tryptophan intake and catabolism generating more of kynurenines producing immune suppression and immune escape required for parthenogenesis. The immune suppression also produced cold bloodedness of Neanderthals for survival in the cold watery climate. The elements of this culture are still seen in the matriarchal Dravidian communities of peninsular India. The actinidic sea shores and backwater shores of peninsular India is where the homo neanderthalis or the aquatic ape originated. The culture of the Dravidian peninsula is matriarchal and the religious traditions still continue with serpent worshipping culture. This can be called as the mermaid culture.

The human hairlessness, thick subcutaneous fat, webs in the feet and toes, shape of the nostril all point to a watery origin for the human race in mangrove swamps, backwaters and seas. The presence of diving reflex in humans, sweating, tearing, descended human larynx in the neck, hair tract patterns, the presence of hymen and vernix caseosa in babies like seals point to a watery origin for humans. The reproductive behaviour of humans with front-to-front population like aquatic mammals points to the watery origin for humans. The great apes would have come down from the trees and went through an aquaboreal phase where it waded through swamps feeding on molluscs, fruits and fish producing bipedalism. The need to excrete large amount of salt in sea or brackish water leads to the origin of tears and eccrine sweat glands. The human nose is protruded unlike that of primates to protect it from water. The human hairlessness, thick subcutaneous fat and sweating point to the watery origin for humans and bipedalism. The encephalisation of the brain was due to the large intake of omega 3 and omega 6 fatty acids from fish. The human jaw is short with short teeth unlike Chimpanzees pointing to eating of marine food. All naked mammals are aquatic like the dolphin, the manatee, elephant, pig and rhinoceros. The human beings are the only naked apes. The increased subcutaneous fat or blubber in human babies and vernix caseosa of babies point to a watery origin for human species. The human beings have the lacrimal glands and sweat glands to excrete salt in a sea environment. The human babies are plump with 16% body fat and the human milk contains 25 percent fat. The babies roll over on their body and float in water with their nose in air. The fact that human babies can swim points to a watery origin for the human species. The Chimpanzees' hand is light and strong to hang from trees. The human babies hand is too heavy and weak and can grasp onto the hair of the mother

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while swimming in water. The human babies have developed the grasp response for this type of evolution. The human species female has long oily sebum coated scalp hair. The infant chimps have got a strong neck which is kept steady. The human baby attains neck steadiness at six months, but if the baby is placed in water the neck becomes strong. The human speech arose due to the conscious control of respiration which the chimp cannot. The speech also owes its origin to the position of the larynx in the neck. The pincer grip of humans is developed to get meat out of shell fish and mussels which is called as precision grip. This theory was put forward by Elaine Morgan. The backwaters contain water lilies and tubers whose roots were consumed by the primitive humans along with fish, mussels, snails and shell fish. The water lily and lotus roots and leaves contain alkaloids like nupharine and aporphine which are psychoactive and gives rise to the dream state of Neanderthals. The lotus and water lilies are associated with creation myths like that of the sun God Ra emerging from the lotus in primordial waters and the Brahma the creator seated on the lotus. The homo neanderthalis emerged first in the Lemurian landmass which was more like a big island susceptible to breakage to independent landmasses owing to widespread tsunamis in the region. This would have lead to inbreeding in the Neanderthals leading onto loss of genetic diversity and expression of reptilian genes. This would have also contributed to the eventual extinction of Neanderthals. The aquatic ape would have arose as homo neanderthalis in the Lemurian landmass and its breakaway regions like the backwaters linked to the sea regions of Kerala with actinidic sands. This is indicated by the persistence of matrilineal society in the Dravidians of Kerala and the detection of endosymbiotic archaea in the blood of Kerala population. The psychometric neanderthalic quotient is high in the population of Kerala with a high incidence of autism. Matrilineality and consanguinity is common among the Dravidian Nair population of Kerala. The Dravidians tend to have a Neanderthal phenotype. The Dravidian Nairs are postulated to have a Scythian origin. Serpent worship, serpent music and serpent dances are common in Kerala. The communities in Kerala are mostly carnivorous and consume beef. The culture in Kerala is more tolerant and Keralites migrate all over the world and mix with different societies. Tolerance and inclusiveness is a feature of NQ quotient. Serpent temples are widespread in Kerala. Kerala has got a higher incidence of Neanderthal genomic sequences related diseases like autism, schizophrenia, ADHD, addictions, metabolic syndrome, autoimmune disease and cancer. It is tempting to locate the origin of the upright aquatic ape in the extended backwaters and lakes of Kerala with its connections to the sea and its actinidic sand rich shores. The backwaters are rich in fresh fish and mussels and water lilies and lotuses giving tubers and roots. The homo neanderthalis evolved from archaeal

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endosymbiosis and marine archaea are dominant in the seas of the Indian ocean and backwaters of Kerala. Serpent worship is a dominant theme in the Dravidian Nair culture and serpent God Anantha is the dominant deity. This tempts us to speculate on the origin of bipedalism, human species and homo neanderthalis in Kerala.

The origin of the aquatic ape points to the dominant role for the female of the species in human evolution. Human evolutionary theories have focussed on the hunter gatherer and tool maker males. The watery origin of bipedalism and human species points to a dominant role for woman in human evolution. The body anatomy of the females with pendular mammary glands and rounded glutei are for floating and buoyancy and not for sexual attraction. This produces a gynocentric approach to evolution as against an androcentric approach. Evolution was basically meant for protection and rearing of children. Humans have evolved in swamps, backwaters and sea and are not biologically or socially inferior to men. The homo neanderthalis have got features unlike that of chimpanzees. The social patterns of homo neanderthalis can be compared to the bonobo monkeys. The bonobo monkey society is female centred and egalitarian. Sex is a part of social relationship and serves as a substitute for aggression. The bonobo monkeys have different types of sexuality heterosexual, and male to male and female to female. The frequency of sexual interaction is more but the reproductive rate of bonobo monkeys is the same as chimpanzees. The chimpanzees evolved in the open dry savannah while the bonobo monkeys still lived in trees and hanged down from trees. The tree habitat of the bonobo monkeys lead them to an evolutionary form of life where they can hang from mangrove trees in swamps and eventually wade in water. The bonobo monkeys are pigmy monkeys with male weighing 43 kg and female 33 kg. They are omnivorous and eat fruits, small amount of vertebrates and invertebrates. They have imaginative plays and have sex in missionary positions. They have wide variety of sexuality and group behaviour. Sex was a means of social relationships. The female bonobos bonded among themselves and led the community. The male bonobo is attached to his mother and depends on her for protection throughout life. The bonobo society can be compared to a matriarchal female dominant Neanderthal society.

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The female dominant model of human evolution raises the question of who evolved first- the male or the female. The original fossils of human species are predominantly female and the male fossils evolved after billions of years. The original human species would have been a cluster of female bipedals in swampy waters feeding on tubers of water lilies and lotus

as well as fish, mussels and shell fish. The women can reproduce by parthenogenesis like lower animals. Therefore it is natural for the female of the species to evolve first. The sexual relationship in such female only societies in primodial times was lesbian. The evolution of males occurred at a later date. The macho model of human evolution with male hunter and male toolmaker and a female accomplice evolving together is highly unlikely. The next stage of human evolution has been postulated to be interspecies hybrids. This was put forward by Eugene McCarthy. McCarthy pointed to several features of men of humans similar to pigs. Pig organs can be transplanted to humans without rejection. The pigs like humans are hairless, have thick layer of subcutaneous fat, protruding nose and heavy eye lashes. The pig genetic sequence contains similar SINE element ALU as humans. The phenomenon of crossing the species barrier is represented by the generation of the swine flu epidemic in humans. The early bipedal female only human species would have generated human pig interspecies hybrids. This would have generated interspecies hybrids of males and females. The male sexual organ corresponds to the tail of mammals. Similarly sex organs of species like snakes correspond to limb buds. The human embryo in its various stages of development can be compared to fishes, amphibians and lower animals. Interspecies hybrid would have led to the development of male and female of the species. The water mammals like cows, bulls, pigs, elephants, rhinoceros, turtles, crocodiles, water snakes and giant tortoises would have contributed to the generation of interspecies hybrids. This would have generated a population of both male and female bipedals in the swamps with different type of sexual interactions-heterosexual, bisexual, homo sexual and lesbian. Genetic diversity is required for a species to survive. Thus heterosexuality as a mode of sexual behaviour would have become acceptable to society as such. Bacterial and archaeal conjugation with human cells have been described. Chimeras of humans and animals have been produced in labs. Interspecies hybrids have been generated in human labs and populations have been produced. Interspecies hybrids include the dzo between yak and cattle, zubron between cow and bison, cama between camel and illama, yakulo between yak and buffalo, sheep-goat and mules. This exemplified by the Plant of the Apes. The interspecies hybrids would have been protected from pre-zygotic and post-zygotic isolation and destruction by the phenomena of immunosuppression and immune escape mediated by tryptophan catabolite kynurenine. A fish diet in swampy waters is rich in tryptophan. The Hindu myth of creation of Matsya the fish, Koorma the tortoise, Varaha the boar and Narasimha the lion point to the generation of interspecies hybrids as the main lynch point of evolution. The generation of human brain structure also depends upon interspecies hybridisation. The reptilian complex of the brain is dominant in Neanderthals. The reptilian

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complex is seen in amniotes which include mammals, reptiles and birds. The reptilian complex of the reptilian brain includes the basal ganglia, the brain stem and cerebellum. This forms the basis of the cerebellar cognitive affective disorder in Neanderthals. The reptilian brain is the site of imagination, intuition, instinct, compulsivity and dreams. It communicates by symbols and archetypes. It is the site of obsessive compulsive disorder, superstition, ritualism, slavishness and conformation to all way of doing things. It is the site of territoriality, aggression, racism, violence and hypersexuality. The reptilian complex is dominant in amphibians, fishes and reptiles. The Neanderthal brain has got cerebral cortical atrophy and cerebellar dominance. The reptilian brain and reptilian genes are dominant in Neanderthals pointing to interspecies hybridisation of the first evolving Neanderthal females and matrilineal female only Neanderthal society. The interspecies hybrids are signified by the importance of even toed ungulates like pig and cattle in human culture and religion. The even toed ungulates include cattle, pig, deer, camel, sheep, goat and hippopotamus. The odd toed ungulates include rhinoceros and horses. The aquatic cetaceans like whales, dolphins and purpoises evolved from even toed ungulates. Dolphins can communicate with humans. The aquatic cetaceans and even toed ungulates together form a family called cetardiodactyla. The even toed ungulates form large social groups with hierarchy, harem groups and bachelor groups. They mark their territory through glandular secretions. The ungulates can swim and whales and dolphins can gallop in water. The pig antigens have great similarity with human antigens and pig organs can be xenotransplanted into humans. The rejection is due to the presence of retrovirus in the pigs which infects humans. The targeted deletion of retrovirus related DNA from pigs makes pig a valuable source for organ transplantation. The retroviral deleted pig has been cloned and developed into embryos and implanted into sows. The pigs serve as a reservoir for human organ transplant. Hog organs can be transplanted to humans if immunized against human serum. Horse serum is used to develop tetanus antibodies and snake anti-venom. The consumption of beef leads to the development of prion disease in humans. Porcine insulin can be injected into humans and porcine valves can be transplanted to humans. Cow products like milk, dung and urine are used as human medicines. Human stem cell injected into pig embryos has resulted in the development of human pig chimeras. This human pig chimera can be used for organ transplantation. The development of human-ungulate chimera embryos points to the importance of interspecies hybridization in human evolution. This is signified by the worship of cow as Kamadhenu or mother Goddess in Hindu culture, the worship of Varaha, the boar as one of the avatars of Vishnu and the

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religious relationship between Satan and pigs in Semitic religions. The Hindu star signs in religion and astrology have a figurative animal representation.

The aquatic ape evolved from bonobo monkeys into homo neanderthalis in the brackish back waters of the peninsular India. The Neanderthals evolved by archaeal endosymbiosis. The archaea can oxidize cholesterol and ammonia for its energetics. The archaea binds to the toll receptor produces mitochondrial dysfunction and inhibition of TCA cycle and resultant activation of the glycolytic pathway for energetics. This produces the metabolic Warburg phenotype in homo neanderthalis. The homo neanderthalis depends upon ketone body oxidation for its energy needs and subsists on ketogenic diet. The consumption of ketogenic diet results in amino acid catabolism and generation of ammonia which can be oxidized by the archaea for its energy needs. The ammonia can combine with carbon dioxide producing urea which can be acted upon by archaeal urease generating ammonia again. The urea can inhibit mitochondrial function and produce protein modulation by carbomylation. It can thus affect the metabolonome. The inhibition of the TCA cycle channels acetyl CoA to the mevalonate pathway synthesizing cholesterol which can be oxidized by the archaea for its energy needs. The cholesterol ring oxidation generates pyruvate which is acted upon by SGPT generating glutamate which is catabolised by glutamate dehydrogenase generating ammonia. The ammonia can be oxidized by the archaea for its energetics. The ammonia can also be converted to urea by the urea cycle for ammonia storage. The urea mediated carbomylation of proteins results in somatic cell dysfunction and resultant takeover of the human cells by endosymbiotic archaea producing a zombie syndrome with the cell machinery taken over for cholesterol synthesis and oxidation as well as ammonia formation and oxidation subserving archaeal energetics. Urea serves as a substrate for ammonia storage. The aquatic ape evolved in the brackish backwaters of peninsular India and Kerala. The aquatic ape evolved from the bonobo monkeys and eventually developed into homo neanderthalis. The homo neanderthalis and the aquatic ape had a watery home of salty brackish water and the urea served as a substrate for balancing the salt content of the body fluids against the high salt content of the brackish water. The aquatic ape and the homo neanderthalis fed on fishes, mussels, crabs as well as tubers of water plants and this habit did not need strong males and was carried out by dominantly by females. The archaeal cholesterol catabolism produced low level of sex hormones in the aquatic ape and homo neanderthalis producing an asexual phenotype with alternate sexual behaviours. This colony of asexual phenotypes was matriarchal and female dominant with essentially served by groups of subservient male

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eunuchs. The high salt content of the body due to a life in brackish waters served to induce parthenogenesis in the dominant female. The urea synthesis from ammonia was also important in the induction of parthenogenesis. Urea can induce female germinal cells to develop into parthenogenetic embryos. Urea can promote transformation as well as preservation of stem cells and germ cells. The endosymbiotic archaea can produce germ cell transformation as well as stem cell transformation and induce parthenogenesis. Parthenogenesis would have been the dominant form of reproduction in the aquatic ape and homo neanderthalis. Urea synthesis can occur in the liver, the skin and brain of homo neanderthalis and to some extent in homo sapiens. The homo neanderthalic brain evolved due to endosymbiotic magnetotactic archaeal endosymbiosis. The magnetotactic archaea and porphyrions can produce increased absorption of low level EMF producing cortical atrophy and cerebellar dominance. This produces the cerebellar cognitive affective disorder homo neanderthalic brain phenotype with its impulsive behaviour, social withdrawal, creativity and autistic as well as schizophrenic phenotypes. The endosymbiotic archaea uses ammonia as an energy substrate and ammonia is stored in urea molecule for use as and when it is required. The urea synthesis in the homo neanderthalic brain is significant in this respect and serves the purpose of endosymbiotic archaeal energetics. The homo neanderthalic brain can be considered as quantal computing magnetotactic archaeal colony. The homo neanderthalic neuronal cells and circuitry are converted to zombie circuits by neuronal and synaptic protein carbomylation by brain urea. Thus the brain urea synthesis is of great importance in the functioning of the magnetotactic archaeal colony dominated zombie brain of homo neanderthalis. The urea synthesis is also important in the adaptation of the aquatic ape and homo neanderthalis to the salty brackish backwaters of Kerala and maintaining balance between sodium content of body fluids and brackish salt water. The urea molecule is also important in the generation and preservation of stem cells and germ cells as well as their parthenogenetic induction required for formation of embryos by asexual reproduction. Thus the ammonia oxidation and urea synthesis is crucial in endosymbiotic archaeal energetics which gives life to the zombie scaffold of Neanderthal body and brain, the maintenance of the magnetotactic archaeal colony network which functions as the controlling power in the Neanderthal zombie brain and in the generation of stem cells and germ cells and the induction of parthenogenesis.

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The archaeal endosymbiosis produces neanderthalisation of the species. The archaea can activate the enzyme AMPK (Adenosine monophosphate kinase). The Neanderthals

consumed a ketogenic non-vegetarian diet rich in fat and protein. The neanderthalic ketogenic diet can induce AMPK activation. The aquatic ape phenotype ate a lot of fish diet and fish fatty acids can produce AMPK activation. The aquatic ape phenotype also ate lots of tubers of backwater plants like lotus and water lilies containing high amount of glucomannan producing AMPK activation. The water plant tubers contain high amount of fibers whose digestion generates short chain fatty acids like acetate, butyrate producing AMPK activation. Amino acids and fatty acids can induce AMPK activation. AMPK activation can induce by low glucose and oxygen deprivation states of ice age. The Neanderthals had a cerebellar dominant phenotype with increased sympathetic activity producing the impulsive fear, flight, fight phenotype. The catecholamines- epinephrine and norepinephrine and dopamine can produce AMPK activation. The AMPK activation can result in simultaneous mtor activation resulting in dendritic spine pruning defects and an autistic Neanderthal brain. AMPK activation results in simultaneous activation of the HIF alpha and the induction of the Warburg phenotype and stem cell phenotype. AMPK activation can induce UCP proteins uncoupling oxidative phosphorylation leading to mitochondrial dysfunction. AMPK activation leads to increased catabolism and reduced anabolism. AMPK activation results in weight loss. AMPK activation can also lead to increased insulin signaling and IGF activity. The glycolysis, fatty acid oxidation and amino acid oxidation is increased. The protein synthesis is inhibited. The AMPK activation reduces fatty acid, cholesterol and triglyceride synthesis and increases their breakdown. The increased amino acid oxidation results in tryptophan catabolism producing increased amounts of kynurenines which are important in immune escape and parthenogenesis. The AMPK activation resulting in the stem cell phenotype results in generation of germ cells. The AMPK activation can activate the oocyte into development of parthenogenetic embryos. AMPK activation can increase intracellular calcium oscillations, increased intracellular ROS and AMP/ADP ratio resulting in the shock and wave activation of oocyte producing parthenogenesis. The AMPK activation can suppress the immune system producing immune escape and parthenogenetic embryogenesis. AMPK activation can increase the life span of the species and preservation of the Neanderthal phenotype. AMPK activation can produce cardiac protection and neuroprotection. AMPK activation is important in fertility, stem cell transformation and generation of germ cells. AMPK activation can uncouple oxidative phosphorylation as well as produce mitochondrial biogenesis. AMPK activation has a antioxidant effect by inducing NRF 2, superoxide dismutase and UCP. AMPK activation results in reduce generation of free radicals which act as messengers for endogenous retroviral replication. This produces a rigid

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genome, defective synaptic connectivity and cerebral cortical atrophy. AMPK activation induces glycogenolysis and inhibits glycogenesis. AMPK activation also increases glucose transport. The mitochondrial oxidative phosphorylation is blocked by AMPK activation by induction of UCP proteins. The glucose is converted to fructose by aldose reductase and sorbitol dehydrogenase induced by archaea and enters the fructolytic pathway. This results in fructosemia and increased synthesis of lipids and mucopolysaccharides resulting in a hibernation syndrome characteristic of Neanderthal metabolonomics. The AMPK activation also results in inhibition of protein synthesis and increasing autophagy/mitophagy and body renewal increasing the life span of the species. Thus the archaea induced AMPK activation leads to the generation of parthenogenetic species which is female and maternal dominant.

Climate induced archaeal endosymbiosis leads to stem cell transformation and germ cell generation leading to parthenogenesis. This leads to mitochondrial dysfunction and glycolytic activation contributing to the Warburg phenotype. Microembryos parasitize various tissues like the brain, heart, liver and lung. The microembryos contain lipid droplets organelle which forms a reservoir for archaeal replication. The Warburg phenotype leads to blockade of pyruvate dehydrogenase and the TCA cycle. The pyruvate gets channelled to GABA shunt pathway generating succinyl CoA. The Warburg phenotype induced increased glycolysis leads to generation of phosphoglycerate, serine and glycine. Glycine can combine with succinyl CoA generating delta amino levulinic acid which forms the basis of porphyrin synthesis. The porphyrins can form a template for formation of the RNA viroids, DNA viroids and prions as well as isoprenoid lipid organisms. All of them symbiose to form archaea by template mediated replication. The archaea contains magnetite and porphyrins which are capable of absorption of low level of EMF. This leads to quantal perception of low level EMF leading to cortical atrophy and cerebellar dominance which characterised the Neanderthal brain. Neanderthals tend to have a cerebellar cognitive affective disorder. The archaeal network in lipid droplets in the brain is capable of intersynaptic transport and functions as a giant magnetotactic archaeal colony in the zombie brain and controls brain functions. The giant neuronal magnetotactic archaeal colony is capable of quantal perception and consciousness. This produces what is called as the zombie syndrome. The Warburg phenotype that is generated by endosymbiotic archaea leads to germ cell and stem cell transformation and parthenogenesis. The parthenogenetic microembryos with its lipid droplet organelle reservoir of archaea forms the substrate of the Neanderthal brain and its magnetite and porphyrion content is capable of quantal perception and consciousness. This can lead to

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schizophrenic and autistic phenotypes. The parthenogenetic microembryos with its Warburg phenotype studding multiple tissues produce pathogenetic state. The Warburg phenotype can produce insulin resistance and diabetes mellitus as well as vascular thrombosis. The Warburg phenotype and parthenogenesis can lead to oncogenesis. The Warburg phenotype and parthenogenetic embryos can lead to autoimmune disease. The Warburg phenotype and increased glycolysis produces immune activation. The Warburg phenotype can lead to increased glycolysis and glyceraldehyde 3-phosphate mediated nuclear cell death and neurodegeneration.

Somatic parthenogenesis is due to climate change. Climate change can produce archaeal endosymbiosis and archaea and archaeal RNA viroid induced parthenogenesis. In response to stress somatic cells can get transformed to stem cells by endosymbiotic archaea. Stem cell metabolonomics- anaerobic glycolysis, PDH dysfunction, CoQ deficiency mitochondrial dysfunction, branched chain ketoacid dehydrogenase dysfunction, homocystinuria and genomic demythelation, porphyrias and reactive oxygen species generation, SLOS (Smith Lemli Opitz) leading to cholesterol depletion, low sex hormones, vitamin D deficiency and bile acid deficiency. Stem cells can undergo endoreduplication, cell fusion and budding and bursting like bacteria producing polyploidy. These polyploidal cells can become parthogenic embryos. The polyploidal cells are stress resistant and genomically unstable. The polyploidal cells are genomically, metabolically and phenotypically different and unstable. They can get converted to different tissues like brain, liver and heart forming somatic embryos. Multiple somatic embryos with polyploidy produces multiple personality disorders – schizophrenia, autism and mood disorder. Multiple somatic embryos with polyploidy are antigenic and can produce an autoimmune disease. Multiple somatic embryos with polyploidy are genomically unstable can produce cancer. Parthogenesis can lead to social changes including matrilineal societies, alternate sexualities and different identities. Multiple somatic embryos with polyploidy are metabolically and genotypically unstable leads to neurodegeneration. Multiple somatic embryos with different metabolic instability can lead to metabolic syndrome. Archaea and RNA viroid induced mitochondrial dysfunction and upregulated glycolysis resulting in stem cell transformation of somatic cells. The somatic cells which are stem cell transform in the setting of immune activation and cytokine secretion can get converted to germinal cells – sperm and ova. This can result in fertilisation and parthenogenesis. Archaeal digoxin can produce intracellular magnesium deficiency and failed mitosis due to spindle dysfunction. This can produce polyploidal cells. The polyploidal cells

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can assume stem cell functions. The stem cells can mimic germline cells. The meiotic programs of the polyploidal stem cells can get activated generating cleavage embryos, morulas which can get converted to tumour spheroids. The spheroids can get converted to blastocyst and post implantation embryos producing oncogenesis. They can also dissemble producing metastasis.

The Neanderthals ate a high protein high fat non-vegetarian diet by hunting and scavenging mammoths and other animals. This resulted in heavy load of tryptophan in the system producing tryptophanuria and tryptophanemia. The meat contains a high level tryptophan and haemoglobin which can induce the enzyme indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase which are both heme enzymes. The Neanderthals ate a low fibre diet resulting in decrease supply of short chain fatty acids especially butyrate from the gut. Butyrate can suppress indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase and a fibre deficient diet in Neanderthals can upregulate the activity of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase resulting in increased catabolism of tryptophan along the kynurenine pathway. Natural substances that are deficient in non-vegetarian diet like brassica alkaloids, curcumin, caffeine, tea and coca can inhibit indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase which becomes over active in Neanderthals producing tryptophan catabolism. The tryptophan is metabolised to formyl kynurenine, hydroxy kynurenine, kynurenic acid, 3-hydroxy anthranilic acid, quinolinic acid and NAD. Kynurenine can bind to AHR receptor producing immunomodulation and immunosuppression. It can produce immune tolerance in case of embyrogenesis, parthenogenesis, autoimmunity, cancer, lipopolysaccharide tolerance and chronic infection. The kynurenine can produce suppression of T cells and immunity leading to immunotolerance important in the above mentioned states. Thus kynurenine pathway flux can contribute to embyrogenesis and parthenogenesis by producing immune tolerance. The tumours can escape immune destruction by suppression of NK cells and T cells. Thus tumour metabolism depends upon activation of the tryptophan catabolism along the kynurenine pathway. The kynurenine pathway is activated in lipopolysaccharide tolerance and chronic infections producing immunosuppression and immunotolerance. The archaeal endosymbiosis depends upon immunotolerance and immunosuppression by activating tryptophan catabolism along the kynurenine pathway. The tryptophan catabolism along the kynurenine pathway can also contribute to psychiatric disorders. Kynurenine blocks the NMDA receptor and alpha 7 nicotinic receptor. This results in down regulation of NMDA and cholinergic transmission.

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Kynurenine can also upregulate dopaminergic transmission. This results in schizophrenia and autism. The tryptophan catabolism along the kynurenine pathway blocks serotonin synthesis from tryptophan contributing to depressive and anxiety disorders. The tryptophan catabolism along the kynurenine pathway can result in quinolinic acid synthesis and immune activation resulting in autoimmunity, immune tolerance as well as immune activation. Kynurenine can produce immunosuppression and NMDA blockade while quinolinic acid can produce immune activation and NMDA excitotoxicity. The tryptophan catabolism along the kynurenine pathway can generate quinolinic acid important in neurodegeneration. The tryptophan flux along the kynurenine pathway can generate quinolinic acid which can produce low grade inflammation and insulin resistance causing metabolic syndrome. Thus the flux of tryptophan along the kynurenine pathway can produce autoimmune disease, neurodegeneration, schizophrenia, depression, autism, cancer and metabolic syndrome. The induction of heme enzyme indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can lead to heme depletion and induction of ALA synthase increasing porphyrin synthesis and producing porphyrias. The porphyrins can form self-replicating porphyrions. The porphyrions form a template for the formation of RNA viroid, DNA viroid and isoprenoid organism which can symbiose together to form an endosymbiotic archaea by abiogenesis. The induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase produces kynurenine which can suppress the immune system generating immunotolerance and archaeal endosymbiosis. Thus the tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase results in systemic civilizational disorders in Neanderthal population. The tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can result in immune tolerance and immunosuppression by kynurenine producing archaeal endosymbiosis and neanderthalisation of the species. The tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can result in immunotolerance that can contribute to parthenogenetic embryogenesis or somatic pregnancy in multiple tissues in Neanderthals. The tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can produce an autistic schizophrenic tribe of Neanderthals with parthenogenesis and matriarchy.

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Neanderthal evolution was determined by archaeal endosymbiosis. The human species evolved into homo neanderthalis by archaeal endosymbiosis. Archaeal endosymbiosis was mediated by the tryptophan catabolic kynurenine pathway. The kynurenines can produce immunosuppression and immune tolerance resulting in archaeal endosymbiosis. The

kynurenine pathway results in blockade of the NMDA receptor, cholinergic nicotinic alpha 7 receptor, decrease production of serotonin and increase dopaminergic transmission. This produces an autistic, schizophrenic Neanderthal tribe with less of frontal executive function and more of cerebellar dominance affective impulsive type behaviour. The induction of indolamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase led to channelling of tryptophan catabolism along the kynurenine pathway. The Neanderthals ate a high protein non-vegetarian tryptophan diet leading to an induction of tryptophan catabolism. The Neanderthal diet was deficient in dietary fibre and fibre digestion generated short chain fatty acids especially butyrate resulting in increasing indolamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase activity and more of tryptophan catabolism. The kynurenine pathway results in generation of quinolinic acid which can produce chronic immune activation and insulin resistance. Quinolinic acid is also involved in neurodegeneration. The kynurenine induced immune cell as well as NK cell suppression can result in evolution of cancer. The archaeal endosymbiosis generated by kynurenine induced immunotolerance can lead onto cancer, autoimmune disease, metabolic syndrome, neurodegeneration, schizophrenia and autism by generation of archaeal cholesterol catabolite digoxin. Thus the higher load of tryptophan due to a meat diet and low fibre diet results in generation of kynurenine which has a ketamine-like action producing Neanderthal behaviour. The induction of heme enzymes indolamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase results in heme depletion, activation of ALA synthase and porphyrias. The porphyrins can self-organize to form porphyrions and can act as a template to generate isoprenoid organism, RNA viroids, DNA viroids which all symbiozed to form actinidic archaea. The porphyrions have a wave-particle existence and in the presence of membrane intercalated porphyrion mediated sodium potassium ATPase inhibition can result in a pumped phonon system and dipolar porphyrion mediated quantal perception. The porphyrion intercalated cell membrane and sodium potassium ATPase inhibition can result in increased intracellular calcium and decreased intracellular magnesium resulting in mitochondrial dysfunction, cell membrane dysfunction, golgi body related protein processing dysfunction, defect in DNA and RNA function and disordered cell function. This increased intracellular calcium and reduced magnesium due to sodium potassium ATPase inhibition can result in immune activation, glutamate excitotoxicity, oncogene activation and disease states. The immune tolerance produces cancer, stem cell transformation and parthenogenesis. The cancer stem cells can develop meiotic programs generating parthenogenetic embryos which can survive and grow in the presence of immune tolerance created by kynurenines. The multiple parthenogenic embryos can create multiple

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personalities leading to schizophrenia and autism, grow into cancer, its stem cell metabolism with increased glycolysis and mitochondrial dysfunction can produce metabolic syndrome, stem cell mediated increased glycolysis can lead to immune activation and the normal tissue dying at the expense of parthenogenic embryos can produce degeneration. The chronic inflammation induced by quinolinic acid and other tryptophan catabolites producing autoimmune disease and quinolinic acid related cell death and degeneration. The tryptophan catabolic pathway produces civilizational syndromes in Neanderthals leading to their extinction. The tryptophan loading in higher primates and homo sapiens due to increased meat eating carnivorous habits in Eurasian steppes resulted in kynurenine catabolite induced immunosuppression, immunotolerance, archaeal endosymbiosis and neoneanderthalisation. Thus tryptophan loading due to a high meat and low fibre diet mediated kynurenine generation and immunotolerance would have led to archaeal endosymbiosis and evolution of homo neanderthalis and homo neoneanderthalis. The Neanderthals due to archaeal endosymbiosis had stem cell transformation, activation of meiotic programs in the stem cells, generation of germ cells and parthenogenesis. This resulted in female dominance and matriarchal societies. The intraspecies hybridisation and intragenomic conflict would also have contributed to parthenogenesis and reptilian gene expression consequent to interspecies hybridisation and intragenomic conflict. The genes affected are PDH, BKCD, SLOS, porphyria, Hartnup's disease, decreased cholesterol synthesis, CoQ synthesis and vitamin D synthesis. The Hartnup's trait would have developed to counteract the tryptophan loading in Neanderthals consequent to a high meat diet. This produces what is called as increased tryptophan catabolism and kynurenine catabolites mediated oshtoran syndrome described initially in the pericaspean areas. Endemic oshtoran syndromes would have existed in the Neanderthal population producing refractory thought and mood disorders, movement disorders including chorea and tic as well as schizophrenia and autism. The generation of tic disorders as a part of epidemic or endemic oshtoran syndrome would have led to vocal tic led language generation. The human language including ancient ones like Akkadian and Sanskrit developed first in pericaspean areas. The endemic oshtoran syndromes can also result in altered fat metabolism fatty liver and cirrhosis. It can produce adrenal dysfunction and hyperactivity producing sympathetic overactivity and parasympathetic underactivity leading to hypertension, vascular disease, cancer and autoimmune disease. The incidence of lupus-like syndromes and multiple sclerosis is high in endemic oshtoran syndrome. The tryptophan catabolism in oshtoran syndrome can produce cognitive dysfunction like Alzheimer's disease, Parkinson's disease and cell death. Parthenogenesis can lead to autistic phenotype

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with cerebellar dominance and a cerebellar cognitive affective disorder. Parthenogenesis induced reptilian gene expression can produce porphyrias and porphyrin induced extrasensory perception. This produces a creative tribe with quantal perception.

Archaeal endosymbiosis and neanderthalisation depended upon the kynurenine pathway mediated immunotolerance and immunoparalysis. The tryptophan catabolic pathway and kynurenine can have a ketamine-like effect due to NMDA blockade resulting in ecstasy, CCAS, cerebral cortical paralysis and extrasensory perception. The tryptophan catabolism is directed the kynurenine pathway resulting in depletion of melatonin and nocturnal activity and lack of sleep. The tryptophan catabolites kynurenine and kynurenic acid can produce decreased insulin synthesis, decreased insulin release, decreased insulin biological activity causing insulin resistance. Tryptophan catabolitic syndrome can result in sympathetic overactivity and a dysautonomic syndrome producing fear flight response and impulsivity. The induction of reptilian genes by intragenomic conflict and interspecies hybridisation can result in expression of the shikimate pathway producing alkaloidal neurotransmitter synthesis- LSD, nicotine, strychnine, mescaline producing shamanic states and extrasensory perception. The induction of IDO and heme depletion can result in porphyrias and porphyrion mediated extrasensory perception. The heme depletion can reduce the heme enzyme activities. The heme enzyme cytochrome C oxidase is inactivated resulting in mitochondrial dysfunction. The heme enzymes catalase and glutathione peroxidase are inactivated producing free radical stress. The heme enzyme cytochrome P450 is inactivated producing defective bile acid synthesis due to cholesterol 7 alpha hydroxylase deficiency causing metabolic syndrome X due to bile acid deficiency. The heme enzyme cytochrome F450 deficiency produces defective aromatase and beta hydroxy steroid dehydrogenase producing reduced testosterone, estrogen and cortisol synthesis. This produces the asexual and alternate sexual Neanderthal state. The heme enzyme lanosterol 14 alpha demethylase is inactivated inhibiting cholesterol synthesis and cholesterol depletion syndrome. The heme enzyme retinoic acid hydroxylase and cholecalciferol hydroxylases are deficient producing lack of vitamin D and A and defective immunity and uncontrolled cell proliferation.

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The initial event is an increased tryptophan catabolic pathway producing immunotolerance and immunoparalysis mediated by kynurenine. This produces endosymbiotic archaeal growth and neanderthalisation. This results in conversion of somatic cells to germ cells and activation of meiotic programs resulting in parthenogenesis. The homo

neanderthalis reproduces by parthenogenesis. There is a malfunction in sexual reproduction resulting in a parthenogenetic species. Parthenogenesis is induced by actinidic archaea and RNA viroids. Climate change induced stress can produce parthenogenesis. The heme enzymes cytochrome P 450 dependent aromatase and beta hydroxy steroid dehydrogenase are defective resulting in lack of sex hormones producing asexuality and alternate sexuality. The heme enzymes NOS, CBS and HO1 are defective leading to lack of gasotransmitters NO, CO and H_2S resulting in dysautonomia and sexual dysfunction. The parthenogenesis results in formation of multiple embryos in tissues causing multiple personalities and schizophrenia and autism. Parthenogenesis also produces cancer and autoimmune disease. Parthenogenesis in the brain can result in death of normal tissue and neurodegeneration. The stem cell metabolonomics of parthenogenetic embryos with increased glycolysis and mitochondrial dysfunction results in metabolic syndrome. The heme depletion leads to porphyrias and porphyrions causing quantal perception. The tryptophan catabolic pathway related kynurenine can produce a ketamine syndrome akin to schizophrenia. Similar schizophrenic and autistic syndrome can occur in Neanderthals due to tryptophan alkaloids synthesized by reptilian gene activation- LSD and mescaline. This produces a shamanistic spiritual quantal perceptive society. The porphyrion induced quantal perception of low level EMF can result in cortical atrophy and CCAS and an impulsive state, aggressive state, violence, criminality, spirituality and terrorism. The Neoneanderthals form small colonies and tribal groups. The porphyrion mediated quantal perception results in formation of cohesive small groups with communal living creating an anarchic society. The anarchic society arises due to a cerebellar cognitive affective disorder and cortical atrophy consequent to quantal perception. This anarchic society is small and tribal, violent and aggressive, spiritual and transcendental. This results in loss of national identities and recession to primitive tribal identities. The civilizational national identities collapse and are replaced by small tribal identities causing permanent war, instability and crisis. The parthenogenetic reproduction in Neanderthals and Neoneanderthals as well as the lack of sex hormones related asexuality and alternate sexuality produces a matriarchal female dominant small social groups. This can happen in the setting neoneanderthalisation consequent to endosymbiotic archaeal growth. The neoneanderthalic matriarchal society is female dominant and the males are reduced to a marginal role in society creating complexes of hatred and vulnerabilities. This can be compared to the creation of a society female amazons and male eunuchs. The world tends to be transformed into an anarchic society of Amazonian women and male eunuchs. This represents the castrated male syndrome with deprivation of dignity, integrity, passion and

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pride. The Neanderthal communities functioned as anarchic small societies with communal living. The concept of altruistic, egoistic and obsessive love and nuclear family was absent in them. They lived as small groups of 15-20 with group consciousness. The porphyrion induced extrasensory quantal perception resulted in well-bonded anarchic communities with communal living and parenting of children. Sexual relationships became partnership between equals and functional. They were promiscuous, self-sufficient and were not into socially sanctioned relationships like marriage. The duty of the male eunuchoid was to the small community which is served relationships in the community depended on a common communal consciousness based on extrasensory quantal perception. The neanderthalic and neoneanderthalic communities were matriarchal and gender equal and did not have any hierarchal leadership. There were no kings or queens and it was a stateless society. It was a voluntary association and there was no written law or control except by consensus. This is represented by ancient Indian societies in the Buddhist period of Indian history described as Janapadams. These were small stateless societies ruled by equality and consensus. The ancient Harappan civilization was also structured as a stateless anarchic society. The same holds good for the ancient Celtic kingdoms in Wales, Scotland, Basque, Catalonia and Brittany. The concept of anarchic societies is exemplified in the Mandalas in Southeast Asia comprising modern Indonesia, Vietnam, Laos, Cambodia, Myanmar and Thailand. These civilizations were extensions of the South Indian Dravidian civilization which derived from the Harappan civilization. In modern times the anarchic societies were revived in the form of modern Grama Swaraj of Gandhi whose philosophy was basically anarchic. Gandhi was from the area of India where the Harappan civilization thrived in prehistoric times. The same anarchic societies can be seen in Jewish Kibbutz. The Jews, Celts, Dravidians all had a neanderthalic origin. This formed the basis primitive, anarchic Neanderthal communities. The global warming related endosymbiotic archaeal growth results in neoneanderthalisation. The actinidic archaea mediated quantal perception of low level EMF results in cortical atrophy and cerebellar dominance resulting in a cerebellar cognitive affective disorder. The archaea mediated quantal perception by porphyrions results in small bonded Neoneanderthal communities with anarchic forms of organisation. The human civilization owing to global warming and neanderthalisation of the brain regresses to form small tribal anarchic communities in perpetual warfare resulting in the end of nation states. The neoneanderthalic world of anarchy has set in. The matriarchal societies with parthenogenetic female result in the syndrome of castrated male eunuchs and gender equal societies. Anarchy becomes the norm of political life in the world with its attendant catastrophic destructions. The male

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eunuch syndrome coupled with cerebellar cognitive affective disorder in an anarchic world with tribal identities can produce terrorism, criminality, creativity, aggression, violence, lack of empathy and an autistic tribe. The parthenogenetic Neoneanderthals will eventually become extinct due to lack of gene diversity in the population.

Climate change and exposure to low level internet EMF fields can induce HO1 activity and increased porphyrin synthesis. The porphyrins can form porphyrions which act as a template for the formation of RNA viroids, DNA viroids and isoprenoids by abiogenesis. They are symbiose to form actinidic archaea and RNA viroids. This results in endosymbiotic archaeal mediated stem cell transformation. The endosymbiotic archaea can induce toll receptor activation and activate HIF alpha resulting in stem cell metabolonomics with increased glycolysis and mitochondrial dysfunction. The endosymbiotic archaea can induce aldose reductase and fructose metabolism producing frucotsemia, lipid synthesis, mucopolysaccharidosis, porphyrias and hibernation/zombie syndromes. The increased glycolysis and Warburg phenotype can activate the immune system. The stem cells meiotic programs get activated and results in the formation of germ cells and parthenogenesis. Thus climate change and internet exposure results in a reproductive change to predominant asexual reproduction and parthenogenesis. This results in an asexual male eunuch phenotype. This results in gender equality and female dominance. The male population becomes dispossessed and is peripheral to the functions of society. This creates a society of male eunuchs and matriarchs. The society regresses to the matriarchal regime with widespread social consequences. The porphyrions and actinidic magnetotactic archaea can perceive low level EMF fields producing frontal cortical atrophy and cerebellar dominance. This produces the cerebellar cognitive affective disorder on an epidemic scale. The cerebellum is the site of impulsive behaviour, aggression, criminality, extrasensory perception, spiritual phenomena and dreams as well as trance. This results in an impulsive society without any logic or reason producing lawlessness and anarchy. This produces an anarchic world of Neoneanderthals with small social tribal groups and fall of organized civil society and nation states. The consequence of these are widespread lawlessness, wars, criminality, terrorism, sexual promisquity, demise of the nuclear family, alternate sexuality, communal living and breakdown of social structures of the homo sapien society. The anarchic eunuchoid world of Neoneanderthals opens up. Thus the climate change and internet produces a sexual change, anarchic social change, and reproductive change. The Neanderthals live in a dream world of imagination and paranormal phenomena modulated by cerebellar hypertrophy and function.

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This produces a spiritual world of trances and religiosity. The Neanderthal brain activates the default network in the frontoparietal lobe producing day-dreaming, creative visualization, fantasy phenomena, depersonalisation and altered consciousness. The increased tryptophan catabolism produces kynurenine which blocks the NMDA receptor producing a ketamine or phencyclidine schizophrenic psychosis on an epidemic scale. The increased kynurenine can also block the alpha 7 nicotinic acetyl choline receptor, decreased serotoninergic activity and activates dopaminergic receptor. The tryptophan catabolic pathway also produces hallucinogenic alkaloids like strychnine, mescaline and LSD. This contributes to day-dreaming shamanic states in Neoneanderthals. This contributes to creativity, autism, schizophrenia, lack of social contacts, small tribal populations and a dream world in Neanderthal society. The increased porphyrions produces quantal perception and a dream world. The Neanderthals form small social groups and lack social contacts with out of kin population producing small autistic tribes. The Neoneanderthals and homo sapiens can be differentiated by the following phenomena of unconscious versus conscious, religion versus science, magic versus logic, dream versus waking and psychic versus material. The Neoneanderthals have great paranormal ability and the society was more religious and spiritual. They created cities of dreams which were classically psychopathic, magical and dream-like. The Neanderthal culture of magic, culture and spirit was different from that of homo sapiens. The myths, folklores and religiosity are derived from the Neanderthals. The worship of serpents as symbols of God and use of crystals and minerals as exemplified by Siddha forms of medicine are neanderthalic. They painted the skin and face creating extensive tattoos, wore ornaments and were extraordinarily ceremonial and ritualistic. They created dance as form of worship as comparable with the concept of Shiva as a celestial dancer. The neanderthalic tribes were nocturnal and were aware of the star constellations of big bear, little bear and draco. The Neanderthals were nocturnal tribe because of photosensitivity due to porphyrias which made them favour the night time to the day. The neanderthalic Gods were from the outer cosmos and the civilization was seeded by intergalactic contacts mediated by cometary and asteroidal impacts. The comets and asteroids carried magnetotactic actinidic archaea which formed colonies transforming to homo neanderthalis. The Neanderthals were religious and have funeral ceremonies and believed in after life. The Dravidian civilization, Uluzzian and Chatelperonean civilization as well as the Basque and Catalan were neanderthalic. They were a civilization of dreams, rituals, dances, religiosity and trances owing to an epidemic CCAS. The Neanderthals were nocturnal tribe who worshipped the moon goddess were matriarchal food gathering and women governed

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society. The homo sapiens were the sun worshipping patriarchal hunter warriors and male governed society. The females were mere adjuncts. The Neanderthal society was religious, ritualistic and symbolic with a cosmological approach to the world. It was a society of creative imagination. The society was predominantly parthenogenetic and asexual. The tantric form of spirituality and the sense of spiritual awakening indicated by the Kundalini showed the asexual nature and eunuchoid characteristic of the Neanderthal tribe. The cerebellum is the site of creative visualization, paranormal and dreams. The Neanderthal brain was cerebellar dominant creating trance-like states, day-dreaming, telepathy, psychic healing, poltergeist phenomena and religiosity. It was a high civilization of dreams mediated by the cerebellum. The cerebellum produces an ataxic motor syndrome as well as dysmetria of thought. The dysmetria of thought results in an autistic and schizophrenic tribe of Neanderthals and Neoneanderthals produced by climate change and internet exposure. The cerebellum is the site of common embryonal tumours and archaea induced parthenogenesis is higher in the cerebellum producing cerebellar hypertrophy, cerebellar dominance and cerebellar dysfunction. The archaea induced parthenogenesis produces a cerebellar dominance Neoneanderthal brain and the dream civilization of Neanderthals.

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The homo sapiens mind can be characterized by the ego and the homo neanderthalis by id. Homo sapien qualities are sun, fascism, psychosis, logic, science, awake, adult, day, God, male and yang, versus the homo neanderthalis qualities are communism, moon, neurosis, intuition, religion, day-dreaming, child, night, devil, female and ying. The Cro-Magnons were hunters, patriarchal and sun worshipers. The homo neanderthalis were moon worshipers, patriarchal and food gatherers. The homo neanderthalis inhabited Europe and Middle-East. Gooch postulated the double helical concept of the mind as opposed to hemispheric dominance. The double helical mind of Gooch includes the cerebellum which is concerned with dreaming and creativity and the cerebrum concerned with logic. His concept of the sacred life of humans, the double helix of the mind, the cities of dreams, the creations of inner space and the divided self are described extensively in his work. The cerebellum is the site of paranormal and supernatural phenomena and gives rise to creations from the inner space. These are the creations from the inner space mediated by the cerebellum constituted the basis of vampires, troglodytes, demons and asuras. The cerebral cortex is the site of ego and the cerebellum the site of id. The cerebellum becomes dominant owing to archaea and viroid induced embryonal parthenogenesis. The interbreeding of Cro-Magnon with Neanderthals resulted in a burst of spirituality, artistry and creativity. The human behaviour

can be explained by the double helical concept of mind. The socialists are neanderthalic and the Cro-Magnon conservatives. The Neanderthals were red-haired with slanting forehead and were worshippers of the moon. Moon worshipping was common in the Fertile Crescent which included Turkey, Egypt, Harappa, Sumeria and Arabia. The basis of these civilizations was lunar. The Neanderthal societies were matriarchal, completely promiscuous and sex driven and lead by women. They can be compared with the behaviour of bonobo primates. The Neanderthals were short-statured, left-handed and near-sighted. The Cro-Magnons were taller, long-sighted and right-handed. The Neanderthals had a communal living while the Cro-Magnons were monogamous and pair-bonding. The Neanderthals have a larger cerebellum, pyknic body type, non-athletic body type, left-handedness, less of male pattern baldness, prominent eye brows, recessive chins, were neurotic, and is less of psychosis, more hypnotisable and better night vision. The neanderthalic phenotype can be seen in drop-outs, addicts, alcoholics, unemployed and insomniacs. They lived in a world of day-dreaming and increased sexual activity as well as alternate sexuality. The Neanderthals were religiously organized were seen in south Europe, east Europe among the untouchables while the Cro-Magnons had large civil society and were seen in north Europe, west Europe, Brahmin communities and were taller. The political ideas of the French revolution, the Russian revolution and the Taliban were neanderthalic while that of the Nazis and KKK were Cro-Magnon. The Neanderthals were basically a day-dreaming, lunar society and were represented by the Celts, the witches, the Kabalist, the Rosicrucian and Judaist. The Nazi hatred of Jews and the western hatred of Islam are based on their neanderthalic origin. The homo sapiens on the other hand were worshippers of the sun. The Neanderthals were left-handed and left-leaning while the Cro-Magnons were right-handed and right-leaning. The Neanderthal societies are represented by Nairs, Nagas, Sakas, Scythians, Saxons, Celts, Berbers, Sumerians, Dravidians, Harappans, Etruscans and Egyptians. The moon was worshiped in Egypt, Babylon, India, Sumeria, Assyria, Akkadians and Chaldians. The moon God was called as sin and Thoth. They are the oldest human deities and are represented by Shiva in India. The Egyptian God Isis, the Celtic God Morgana, the Greek God Artemis, Aphrodite and Selene were representative of the lunar God. All the pagan festivals depend upon the lunar cycles. The moon God was worshipped in the Kabbala, the Talmuds, the Ur of Chaldees, Harappa and in all of the Fertile Crescent. The Harappan civilization had Shiva with his crescent symbol representing lunar worship. Soma was the presiding deity of Rig Vedic ceremonies and is represented by moon. The soma is actually a drink of milk, honey, cannabis and other plant extracts which produced a hallucinatory state. The Harappan culture

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was neanderthalic and lunar centric as also the succeeding Saivite sects of Hinduism like Aghoras and Nagas. The term for mental illness- lunatic came from lunar worship. The Cro-Magnon civilization was the opposite with sun being the dominant and logic being the culture of the society. The wars of history and hatred of civilizations like Jews, Islam and Hindus were based on neanderthalic origin and their lunar worship.

The Neanderthals evolved by seeding of cometary reptilian genes from outer space. The intergalactic porphyrions, RNA viroids, DNA viroids and template replicating magnetotactic archaea are the basis of cometary genes and seeding of life on earth. The template replication and parthenogenesis are related to evolution of Neanderthals. The intragenomic conflict and interspecies hybridisation produces expression of reptilian genes in human- PDH deficiency, mitochondrial dysfunction, SLOS and porphyria. The parthenogenesis and matriarchy are related as also SLOS, asexuality and alternate sexuality. This produces on-hierarchal anarchic societies. The equality and gender sensitivity are related to the serpent cult of Khylst and Capracoites- Nagas and Asuras- Dravidians and Sumerians- Punts and Egyptians. The Mother Goddess, the serpent people and Neanderthals are synonymous. The Dravidians, Celts, Egyptians, Jews, Berbers, Sakas, Nagas, Nairs, Asuras and Neanderthals were parthenogenetic. They consumed a high fat high protein diet- milk and honey, and had persisting adult lactose tolerance. This contributed to the consumption of a ketogenic diet, stem cell metabolonomics and parthenogenesis. Global warming and climate change can lead to archaeal endosymbiosis and neanderthalisation of the species. This leads to interspecies hybridisation and intragenomic conflict contributing to parthenogenesis. Archaea and RNA viroids can induce parthenogenesis. Parthenogenesis can lead to matriarchy and female dominance. Parthenogenesis can produce expression of reptilian genes, porphyrias, extrasensory perception and autistic phenotype. This results in a creative, spiritual and matriarchal population. This has a similarity to an ant and bee colony. They behave like parthenogenetic Neanderthal societies. The reptilian gene expression produces the SLOS phenotype, low cholesterol and lack of sex hormones leading to asexuality and alternate sexuality.

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Parthenogenesis can lead to human disease. Parthenogenetic Somatic pregnancy can lead to cancer. Parthenogenetic embryos behave like autoantigens causing autoimmunity and autoimmune disease. The parthenogenesis and stem cell glycolysis can lead to lymphocyte activation and autoimmune disease. Parthenogenesis in brain can lead to multiple

personalities causing schizophrenia and autism. Parthenogenetic embryos in neural tissue can lead to neurodegeneration by starving the host cells. Parthenogenesis leads on to Warburg phenotype. The Warburg phenotype contributes to anaerobic glycolysis, mitochondrial dysfunction and metabolic syndrome. Parthenogenesis can lead to sexual evolution and alternate sexuality. Parthenogenesis will lead to a lack of demand for sexual reproduction. The expression of reptilian genes and SLOS phenotype produces cholesterol depletion and sex hormone deficiency. This produces an asexual phenotype. Extremes of climate change can produce archaeal symbiosis and parthenogenesis. This results in interspecies hybridisation and intragenomic conflict. This leads to a matrilineal society and female dominance. The status of males is low in matrilineal societies. The Neanderthal societies were female dominant. The interspecies hybridisation and intragenomic conflict leads to archaea and RNA viroid induced parthenogenesis. The reptilian gene expression produces SLOS phenotype, low cholesterol, low sex hormones and asexuality. This results in alternate sexuality, matrilineal societies, female dominance and DEVI syndrome. This contributes to autistic phenotype and neanderthalic autistic tribes.

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The climate change induced parthenogenesis is due to mediation by archaea and RNA viroid. This produces matrilineal society, matriarchy and asexual societies. The reptilian gene expression and porphyrias leads to generation of porphyrions and extrasensory perception. Parthenogenesis and mother Goddess cult are related. The porphyrions produces extrasensory quantal perception and a quantal civilization. This leads to creativity and autism. The return of Nagas and Asuras due to climate change mediated archaeal endosymbiosis and parthenogenesis is related. Archaea and viroid can induce parthenogenesis. Archaea and RNA viroid induced mitochondrial dysfunction and upregulated glycolysis resulting in stem cell transformation of somatic cells. Stem cell metabolonomics include anaerobic glycolysis, PDH dysfunction, CoQ2 mutation and mitochondrial dysfunction. The somatic cells which are stem cell transform in the setting of immune activation and cytokine secretion can get converted to germinal cells- sperm and ova. This can result in fertilisation and parthenogenesis. The porphyrions result from intragenomic conflict/interspecies hybridisation and reptilian gene expression. The archaea can induce the HIF alpha and toll receptor activation resulting in glycolysis, mitochondrial dysfunction and GABA shunt. This also produces porphyrin synthesis and porphyrions. Porphyrins can produce extrasensory perception/quantal perception. Porphyrins can result in quantal perception and a quantal civilization existing in multiverse universes. The actinidic archaea and porphyrions have

magnetotactic function resulting in mirror neuron function. This results in an autistic tribe. The cerebral cortex becomes atrophic and the cerebellar cortex dominant producing a cerebellar cognitive affective disorder. Interspecies hybridisation and intragenomic conflict results in archaeal symbiosis and parthenogenesis. There is intragenomic conflict and interspecies hybridisation producing this phenomenon. This results in reptilian gene expression and the shikimic acid pathway activation. This produces increased dopamine synthesis. Hyperdopaminergic transmission can produce endemic la tourette disease with motor and vocal tics. The hissing like vocal tics led to the evolution of language.

The Neanderthals consume high fat high protein, ketogenic diet. This resulted in hibernation, fructolysis and fructosemia, lipogenesis and fat deposition, mucopolysaccharide accumulation, parthenogenesis and stem cell metabolism, glycolysis and mitochondrial dysfunction. High fat high protein diet can lead to decreased SCFA, modulated histone acetylation, HERV expression and genomic modulation. Low levels of short chain fatty acids including butyrate consequent to a low fibre diet produces decreased HDAC is related to HERV expression. Reptilian gene expression can lead to homocystinurias and genomic expression modulation by demethylation. Neanderthalisation of the brain produces extrasensory perception, cortical atrophy, cerebellar dominance and cerebellar cognitive affective disorder (CCAS). The Neanderthal quotient is related to neuroticism, social fear, social avoidance, depression, bipolar disorders and autism. The Neanderthal quotient is related to fear of strangers, aggressive behaviour and social limitation. The NQ is also related to sexual promiscuity, emotional stoicism and fear in social situation. The NQ is also related to anxiety, xenophobia, lack of empathy, compassion. The NQ quotient is related to lack of working memory and consciousness and develop long-term memory. The NQ is related to risky physical, social and sexual behaviour. The NQ is related to small groups of 8-10 numbers. The Neanderthals groups were small. The homo sapien groups numbered 150 and were large. The NQ form alliances within kin groups and family ties were strong. The homo sapiens could form alliances with non-kin groups and large civilizations developed.

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The autistic and schizophrenic phenotype has been attributed as to refrigerated mother of the Neanderthal matriarchal phenotype by Leo Kanner and Bruno Bettelheim. The homo neanderthalis is female dominant matriarchal society. The Neanderthal brain contributes to the cerebellar cognitive affective disorder with a high incidence of autism and schizophrenia. This leads to parental coldness, obsessiveness, social isolation and ritualism. Autistic and

schizophrenic neanderthalic mothers give rise to autistic and schizophrenic children. Autism and schizophrenia are disorders of socialization. The mothers of autistic and schizophrenic children are socially withdrawn and dominate their children leading on to what is called as Mahler syndrome or symbiotic psychotic syndrome. This is a syndrome of dedifferentiation and deanimation with the child perceiving itself as an extension of the mother. The Neanderthals have magnetotactic archaea and porphyrion induced quantal perception and the dominant mother is undifferentiated psychologically from the Neanderthal children. The Neanderthal children of dominant mothers become socially withdrawn and isolated leading to paleologic thinking process contributing to autism and schizophrenia. The Neanderthal brain evolved due to archaeal symbiosis and archaeal cholesterol catabolism leads to decreased levels of cholesterol and bile acids in Neanderthals. The archaea use cholesterol as an energy substrate and have cholesterol oxidase activity. Bile acids can bind to olfactory receptors and can modulate the limbic lobe and human behaviour. Bile acids are involved in social bonding and bile acid deficiency in Neanderthals contributes to the formation of smaller societies and tight family groups. The bile acid deficiency contributes to decreased social bonding in Neanderthals and the genesis of autism and schizophrenia. The family relationships in the matriarchal society are tight creating the empty fortress syndrome.

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The porphyrions have a wave-particle existence and can exist in the intergalactic space. They form a template for the formation of abiogenetic isoprenoid organism, DNA viroids, RNA viroids, double helical templates resembling reptiles. The formation of universe depends on abiogenetic magnetotactic archaea related intergalactic magnetic field. The cometary genes derived from intergalactic archaea and viroids by asteroidal impact seeds life in earth. The intergalactic archaea and cometary genes produced the evolution of life on earth. The actinidic archaeal colonies became multicellular and evolved into Neanderthals. The parthenogenetic embryos of Neanderthals have template mediated replication.

The interspecies hybridisation and intragenomic conflict resulted in archaea and viroid induced parthenogenesis. This produced matriarchy and female dominance. The reptilian gene expression and SLOS phenotype resulted in low cholesterol, sex hormones and asexuality. This produces a culture of sexual equality and alternate sexuality. The porphyrion induced ESP can lead to unified consciousness, equality and oneness. This produces an anarchic and non-hierarchal society. The neanderthalisation of the brain can lead to a cerebellar cognitive affective disorder. The CCAS leads to evolution of evilness and

spirituality. The CCAS also results in illogical impulsive acts contributing to terrorism. The extrasensory perception and ataxia due to cerebellar dysfunction can lead to creativity, dance, painting and art.

The interspecies hybridisation and intragenomic conflict can lead to parthenogenesis- archaea and viroid induced. The reptilian gene expression and stem cell metabolism leads to mitochondrial dysfunction, PDH deficiency, glycolysis, fructolysis, fructosemia, lipogenesis, hibernation syndrome, mucopolysaccharidosis and zombie syndrome. This produces metabolic syndrome with obesity and diabetes mellitus mimicking reptilian habits. The interspecies hybridisation and intragenomic conflict leads to climate change, archaea and viroid induced parthenogenesis. The reptilian gene expression produces HIF alpha and increased glycolysis immune activation. The somatic parthenogenesis is related to autoimmunity. Reptilian gene expression and digoxin synthesis leads to immune activation. The reptilian genes and HLA expression are related. The HLA genes are derived from Neanderthals. The archaea and RNA viroid induced toll receptor activation can lead to immune activation. This produces autoimmune disease. The interspecies hybridisation and intragenomic conflict can result in parthenogenesis, archaea and RNA viroid induced. The reptilian gene expression leads to porphyrias. The porphyrions are related to quantal perception. The Neanderthals are retroviral resistant with less of HERV expression leading to cortical atrophy and cerebellar dominance contributing to CCAS. The porphyrion induced quantal perception can lead to a quantal civilization. This results from neanderthalisation of the brain, decreased cerebral cortex. The interspecies hybridisation and intragenomic conflict as said before can lead to parthenogenesis- archaea and viroid induced. The reptilian gene expression leads to porphyria and porphyrion generation producing ESP and quantal perception. The mirror neurons function is related to archaeal porphyrions. This leads to quantal perception and civilization as well as biological reincarnation.

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Table 1. Parthenogenetic history in female pregnancies

Group	Percentage
Matrilineal Nair	11
Non-matrilineal	2

Table 2. Neanderthal quotient

Group	NQ
Matrilineal Nair	High
Non-matrilineal	Low

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CHAPTER 10
A NEW SEXUAL PHENOTYPE - SEXUALITY IN NEANDERTHALS AND NEONEANDERTHALS

Somatic parthenogenesis occurs due to transformation of the somatic cell to pluripotent stem cell which can develop to parthenogenetic embryos. This results from hybridization between two different species homo neanderthalis and homo sapiens. This interspecies hybridization produces intragenomic conflict and parthenogenesis. Parthenogenesis can be induced by stress of climate change and by endosymbiotic archaea and RNA viroids. The intragenomic conflict consequent to interspecies hybridization results in upregulation of the tryptophan catabolic pathways producing increased amounts of kynurenine, immunosuppression and immune escape of the parthenogenetic embryos. The interspecies hybridization and intragenomic conflict results in reptilian gene expression and digoxin synthesis. The digoxin produced by endosymbiotic archaea results in upregulated tryptophan transport and catabolism over tyrosine. The increased kynurenine catabolism in Neanderthals results in immune escape and endosymbiotic archaeal growth. The endosymbiotic archaeal growth results in neanderthalisation of the species. The neanderthalisation of the species and interspecies hybridization and intragenomic conflict results in porphyrias and increased porphyrion mediated low level EMF perception, cortical atrophy and cerebellar dominance. This produces a cerebellar cognitive affective disorder with autistic features, impulsivity, aggressiveness, power lust, increased sexual desire, alternate sexuality, criminality, cannibalistic features and anarchic social mores. The Neanderthal species owing to endosymbiotic archaeal growth and stem cell transformation had an asexual mode of reproduction with parthenogenesis. This results in female dominance, Amazonian syndrome, a culture of male eunuchs and matriarchy. The interspecies hybridization and intragenomic conflict results in a SLOS phenotype with decreased cholesterol synthesis. This produces decreased sex hormone synthesis resulting in asexuality and alternate sexuality. The Neanderthals were matriarchal and worship the mother Goddess. The reptilian gene expression and SLOS phenotype results in generation of serpentine features. The genes for the primitive reptilian brain complex get expressed with aggression, violence, impulsivity, cannibalism, anarchy, immorality, lust for power and dominance. The SLOS phenotype results in development of primitive features like the development of tail or cauda, cleft chin, prominent thin long teeth and canines, freckles, scales in the skin and syndactly or webbing. The digoxin synthesis and decreased tyrosine transport results in

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reduced dopamine and melanin synthesis contributing to a tribe of anarchic white Gods. The reptilian gene expression and digoxin synthesis leads to sympathetic hyperactivity and ability to regulate the body temperature in alignment with environmental temperature producing cold bloodedness. The archaea induced fructolysis and fructosemia owing to induction of aldose reductase results in increased lipid and mucopolysaccharide synthesis and hibernation syndrome contributing to obesity and increased subcutaneous fat like reptiles. The evolution of cervical rib, the widow's peak in the eye brows and prominent second toe in the feet is due to increase of recessive traits consequent to inbreeding. The inbreeding results from the autistic phenotype and reduced social contact and social withdrawal. This autistic phenotype with the inbreeding and parthenogenesis leads to decreased genetic diversity and extinction of Neanderthals. The Neanderthals have increased subcutaneous fat, scaly skin which is partly due to albinism and UV exposure as well as due to cholesterol synthetic defect, increased salt secreting eccrine sweat glands and dominant tryptophan pathway and serotonin synthesis producing pineal gland or third eye. The increased tryptophan catabolism produces an epidemic oshtoran syndrome. The neanderthalisation produces an epidemic anarchic syndrome. The neanderthalisation also produces the syndrome of male eunuch and matrilineality. The Neanderthals were mostly parthenogenetic. The cerebellar cognitive affective disorder and actinidic archaeal magnetite and porphyrion induced quantal perception resulted in equality and universality. The primitive Neanderthal tribes are represented by the Saxons, Sakas, Basque, Etruscans, Dravidian races, the Celts and Berbers. The most dominant Neanderthal tribe is the Anglo-Saxons which created an equal society with a universal culture which is American, a universal language which is English, an universal monetary system represented by the dollar and the unification of all ethnicity in the American dream of tolerance and inclusiveness. The Neanderthals had serpentine features and Neanderthal cultures all over the world is represented by serpent worships as seen in Sumeria, the Dravidians of South India, Thoth of Egypt and in Mexico. The Naga tribes and Naga lore of South India represents the Neanderthal culture. The modern version of serpent worship is seen in the symbol of medical profession, the representation of the dollar and in free masonry. Free masonry of the Anglo-saxons incorporates all religions and is the first universal religion and is neanderthalic. The neanderthalic populations were represented by particular blood groups, the universal donor O Rh –ve and AB Rh –ve, the universal receiver.

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The Neanderthal phenotype gives clues as to the origin of the humans. The Naga tribes of South India were hypothesized to originate in the ancient Lemurian landmass which

got broken up by tsunamis and earthquakes. The remnants of the Neanderthal phenotype are seen in the Australian aboriginals, the New Zealandian Maoris, the Dravidian Tamils and Nairs. These societies are predominantly matriarchal and serpent worshipping. The homo neanderthalic possibly arose in the Lemurian oceanic landmass supporting the theory of the aquatic ape origin of humans. The accepted theory of human origin postulates the origin of humans from primates in the African savannahs. Several points give clue to an origin of the human species in water. The neanderthalic behaviour can be compared to the behaviour of the bonobo monkeys or lemurs seen in the ancient Lemurian continent. The homo neanderthalis would have originated from the bonobo monkeys in the Lemurian backwaters communicating with the sea. The bonobo monkeys owing to shortage of food would have started foraging the backwaters and sea for fish and tubers of water lilies. The fish contains essential fatty acids like docosa hexaenoic acid and tubers contain plenty of carbohydrates. The brain is exclusively dependent on carbohydrates and ketone bodies for energy. The essential fatty acids increase the brain growth. The brain growth in humans is called encephalisation which is more than in primates and is equivalent to sea mammals like the dolphin and whales. The bonobo monkeys would have waded into water and stood in water generating the phenomenon of bipedalism. This would have freed their hands to catch fish and break shellfish to generate food. This would also have freed the hands to collect and eat the tubers of water plants. The human species lack hair unlike the primates but like the aquatic mammals. The human species have increased subcutaneous fat like aquatic mammals and unlike primates. The human beings have got eccrine sweat glands and tear glands useful in a watery environment. The human trachea is placed down in the neck unlike that in primates where it is more nasal. The human language points to an aquatic origin for human species. For the human language to develop you have to consciously control your breathing which does not exist in primates but in humans and aquatic mammals. The humans have the diving reflex. The smooth skin with sparse hair and thick subcutaneous fat for insulation points to an aquatic origin for humans like aquatic whales and dolphins. The webbed feet and hands also point to an aquatic origin. The sebaceous glands with its greasy secretion point to water-proofing in humans and an aquatic origin. The homo neanderthalis unlike the homo sapiens is more of an aquatic swimming type. The homo neanderthalis had longer lungs and increased respiratory capacity which helped them to dive into water and float in water. The homo neanderthalis owing to their SLOS phenotype and albinism had vitamin D deficiency. Vitamin D is synthesized from cholesterol. The homo neanderthalic bone was thin as compared to the darkened vitamin D rich homo sapiens. The long lungs and the thin bone

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helped the homo neanderthalis to float in water. The origin of paranasal sinuses were for the human species to hold its head above water. The human beings sexual behaviour is like aquatic mammals and unlike primates with front to front population. All these differences point to an aquatic origin for the human beings or an aquatic ape hypothesis. The homo neanderthalis originated from the bonobo Lemurian monkeys which waded into water to search for food. The bonobo monkeys sexual behaviour and promiscuousness and alternate sexuality are comparable to homo neanderthalis. The homo neanderthalis arises owing to archaeal endosymbiosis. The waters of the ocean and backwaters are rich in marine archaea which are capable for acetogenesis and methanogenesis. The backwaters and sea of the South Asian peninsular landmass is rich in actinides, the bathyarchaeota. They are capable of acetogenesis and are a source of organic carbon. The actinides would have formed scaffolds for the formation of complex life molecules like RNA, DNA, protein, isoprenoids and complex carbohydrates. This would have produces RNA viroids, DNA viroids, isoprenoid organism and prions on actinidic surfaces which would have symbiosed to form archaea and eventual multicellular organisms. The multicellular organisms arising on abiogenetic actinidic surfaces in the backwater-ocean connections seen in Southern peninsular India which broke away from the Lemurian landmass would have evolved into eukaryotes, prokaryotes, multicellular organisms and symbiotic plants/animals. The bonobo Lemurian monkeys would have evolved into homo neanderthalis by archaeal endosymbiosis in the actinidic shores of backwaters, lakes and oceans of peninsular India. The remnants of homo neanderthalis are seen in Australian aboriginals, Maoris and Dravidians which are all matriarchal and serpent worshipers. The aquatic ape and homo neanderthalis would have evolved in the actinidic sand shores of backwaters and lakes of Lemuria and peninsular India. The Dravidian communities are matriarchal and female dominant. There is a high degree of consanguinity and inbreeding in the Dravidian matrilineal communities. Parthenogenesis would have been dominant in such communities with matriarchy producing syndromes of the male eunuchs and oshtoran syndromes. The homo neanderthalis ate a carnivorous diet. The teeth were longer compared to homo sapiens and the canines were prominent comparable to fangs of snakes. The cows and bulls were domesticated by the homo neanderthalis which were originally hunters and warriors hunting on mammoths. The domestication of cows and bulls resulted in a high consumption of milk and meat including beef. This resulted in the generation of a lactose tolerant adult population. The gene for lactose tolerance arose 12,000 years ago. The relationship between the cows and Neanderthals could be described as parasitic obligate symbiosis. The origin of cow worship and bull worship in peninsular Indian

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religions can be related to it. The increased consumption of a carnivorous diet of milk and meat resulted in increased tryptophan intake and catabolism generating more of kynurenines producing immune suppression and immune escape required for parthenogenesis. The immune suppression also produced cold bloodedness of Neanderthals for survival in the cold watery climate. The elements of this culture are still seen in the matriarchal Dravidian communities of peninsular India. The actinidic sea shores and backwater shores of peninsular India is where the homo neanderthalis or the aquatic ape originated. The culture of the Dravidian peninsula is matriarchal and the religious traditions still continue with serpent worshipping culture. This can be called as the mermaid culture.

The human hairlessness, thick subcutaneous fat, webs in the feet and toes, shape of the nostril all point to a watery origin for the human race in mangrove swamps, backwaters and seas. The presence of diving reflex in humans, sweating, tearing, descended human larynx in the neck, hair tract patterns, the presence of hymen and vernix caseosa in babies like seals point to a watery origin for humans. The reproductive behaviour of humans with front-to-front population like aquatic mammals points to the watery origin for humans. The great apes would have come down from the trees and went through an aquaboreal phase where it waded through swamps feeding on molluscs, fruits and fish producing bipedalism. The need to excrete large amounts of salt in sea or brackish water leads to the origin of tears and eccrine sweat glands. The human nose is protruded unlike that of primates to protect it from water. The human hairlessness, thick subcutaneous fat and sweating point to the watery origin for humans and bipedalism. The encephalisation of the brain was due to the large intake of omega-3 and omega-6 fatty acids from fish. The human jaw is short with short teeth unlike Chimpanzees pointing to eating of marine food. All naked mammals are aquatic like the dolphin, the manatee, elephant, pig and rhinoceros. The human beings are the only naked apes. The increased subcutaneous fat or blubber in human babies and vernix caseosa of babies point to a watery origin for human species. The human beings have the lacrimal glands and sweat glands to excrete salt in a sea environment. The human babies are plump with 16 per cent body fat and the human milk contains 25 percent fat. The babies roll over on their body and float in water with their nose in air. The fact that human babies can swim point to a watery origin for the human species. The Chimpanzees' hand is light and strong to hang from trees. The human babies hand is too heavy and weak and can grasp on to the hair of the mother while swimming in water. The human babies have developed the grasp response for this type of evolution. The human species female has long oily sebum coated scalp hair. The

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infant chimps have got a strong neck which is kept steady. The human baby attains neck steadiness at six months, but if the baby is placed in water the neck becomes strong. The human speech arose due to the conscious control of respiration which the chimp can't. The speech also owes its origin to the position of the larynx in the neck. The pincer grip of humans is developed to get meat out of shell fish and mussels which is called as precision grip. This theory was put forward by Elaine Morgan. The backwaters contain water lilies and tubers whose roots were consumed by the primitive humans along with fish, mussels, snails and shell fish. The water lily and lotus roots and leaves contain alkaloids like nupharine and aporphine which are psychoactive and gives rise to the dream state of Neanderthals. The lotus and water lilies are associated with creation myths like that of the sun God Ra emerging from the lotus in primordial waters and the Brahma the creator seated on the lotus. The homo neanderthalis emerged first in the Lemurian landmass which was more like a big island susceptible to breakage to independent landmasses owing to widespread tsunamis in the region. This would have lead to inbreeding in the Neanderthals leading on to loss of genetic diversity and expression of reptilian genes. This would have also contributed to the eventual extinction of Neanderthals. The aquatic ape would have arose as homo neanderthalis in the Lemurian landmass and its breakaway regions like the backwaters linked to the sea regions of Kerala with actinidic sands. This is indicated by the persistence of matrilineal society in the Dravidians of Kerala and the detection of endosymbiotic archaea in the blood of Kerala population. The psychometric neanderthalic quotient is high in the population of Kerala with a high incidence of autism. Matrilineality and consanguinity is common among the Dravidian Nair population of Kerala. The Dravidians tend to have a Neanderthal phenotype. The Dravidian Nairs are postulated to have a Scythian origin. Serpent worship, serpent music and serpent dances are common in Kerala. The communities in Kerala are mostly carnivorous and consume beef. The culture in Kerala is more tolerant and Keralites migrate all over the world and mix with different societies. Tolerance and inclusiveness is a feature of NQ quotient. Serpent temples are widespread in Kerala. Kerala has got a higher incidence of Neanderthal genomic sequences related diseases like autism, schizophrenia, ADHD, addictions, metabolic syndrome, autoimmune disease and cancer. It is tempting to locate the origin of the upright aquatic ape in the extended backwaters and lakes of Kerala with its connections to the sea and its actinidic sand rich shores. The backwaters are rich in fresh fish and mussels and water lilies and lotuses giving tubers and roots. The homo neanderthalis evolved from archaeal endosymbiosis and marine archaea are dominant in the seas of the Indian ocean and backwaters of Kerala. Serpent worship is a dominant theme in the Dravidian Nair culture and

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serpent God Anantha is the dominant deity. This tempts us to speculate on the origin of bipedalism, human species and homo neanderthalis in Kerala.

The origin of the aquatic ape points to the dominant role for the female of the species in human evolution. Human evolutionary theories have focused on the hunter gatherer and tool maker males. The watery origin of bipedalism and human species points to a dominant role for woman in human evolution. The body anatomy of the females with pendular mammary glands and rounded glutei are for floating and buoyancy and not for sexual attraction. This produces a gynocentric approach to evolution as against an androcentric approach. Evolution was basically meant for protection and rearing of children. Humans have evolved in swamps, backwaters and sea and are not biologically or socially inferior to men. The homo neanderthalis have got features unlike that of chimpanzees. The social patterns of homo neanderthalis can be compared to the bonobo monkeys. The bonobo monkey society is female centred and egalitarian. Sex is a part of social relationship and serves as a substitute for aggression. The bonobo monkeys have different types of sexuality heterosexual, and male to male and female to female. The frequency of sexual interaction is more but the reproductive rate of bonobo monkeys is the same as chimpanzees. The chimpanzees evolved in the open dry savannah while the bonobo monkeys still lived in trees and hanged down from trees. The tree habitat of the bonobo monkeys lead them to an evolutionary form of life where they can hang from mangrove trees in swamps and eventually wade in water. The bonobo monkeys are pigmy monkeys with male weighing 43 kg and female 33 kg. They are omnivorous and eat fruits, small amount of vertebrates and invertebrates. They have imaginative plays and have sex in missionary positions. They have wide variety of sexuality and group behaviour. Sex was a means of social relationships. The female bonobos bonded among themselves and led the community. The male bonobo is attached to his mother and depends on her for protection throughout life. The bonobo society can be compared to a matriarchal female dominant Neanderthal society.

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The female dominant model of human evolution raises the question of who evolved first- the male or the female. The original fossils of human species are predominantly female and the male fossils evolved after billions of years. The original human species would have been a cluster of female bipedals in swampy waters feeding on tubers of water lilies and lotus as well as fish, mussels and shell fish. The women can reproduce by parthenogenesis like lower animals. Therefore it is natural for the female of the species to evolve first. The sexual relationship in such female only societies in primodial times was lesbian. The evolution of

males occurred at a later date. The macho model of human evolution with male hunter and male toolmaker and a female accomplice evolving together is highly unlikely. The next stage of human evolution has been postulated to be interspecies hybrids. This was put forward by Eugene McCarthy. McCarthy pointed to several features of men of humans similar to pigs. Pig organs can be transplanted to humans without rejection. The pigs like humans are hairless, have thick layer of subcutaneous fat, protruding nose and heavy eye lashes. The pig genetic sequence contains similar SINE element ALU as humans. The phenomenon of crossing the species barrier is represented by the generation of the swine flu epidemic in humans. The early bipedal female only human species would have generated human pig interspecies hybrids. This would have generated interspecies hybrids of males and females. The male sexual organ corresponds to the tail of mammals. Similarly sex organs of species like snakes correspond to limb buds. The human embryo in its various stages of development can be compared to fishes, amphibians and lower animals. Interspecies hybrid would have led to the development of male and female of the species. The water mammals like cows, bulls, pigs, elephants, rhinoceros, turtles, crocodiles, water snakes and giant tortoises would have contributed to the generation of interspecies hybrids. This would have generated a population of both male and female bipedals in the swamps with different type of sexual interactions-heterosexual, bisexual, homo sexual and lesbian. Genetic diversity is required for a species to survive. Thus heterosexuality as a mode of sexual behaviour would have become acceptable to society as such. Bacterial and archaeal conjugation with human cells have been described. Chimeras of humans and animals have been produced in labs. Interspecies hybrids have been generated in human labs and populations have been produced. Interspecies hybrids include the dzo between yak and cattle, zubron between cow and bison, cama between camel and illama, yakulo between yak and buffalo, sheep-goat and mules. This exemplified by the Plant of the Apes. The interspecies hybrids would have been protected from pre-zygotic and post-zygotic isolation and destruction by the phenomena of immunosuppression and immune escape mediated by tryptophan catabolite kynurenine. A fish diet in swampy waters is rich in tryptophan. The Hindu myth of creation of Matsya the fish, Koorma the tortoise, Varaha the boar and Narasimha the lion point to the generation of interspecies hybrids as the main lynch point of evolution. The generation of human brain structure also depends upon interspecies hybridization. The reptilian complex of the brain is dominant in Neanderthals. The reptilian complex is seen in amniotes which include mammals, reptiles and birds. The reptilian complex of the reptilian brain includes the basal ganglia, the brain stem and cerebellum. This forms the basis of the cerebellar cognitive affective disorder in Neanderthals. The reptilian

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brain is the site of imagination, intuition, instinct, compulsivity and dreams. It communicates by symbols and archetypes. It is the site of obsessive compulsive disorder, superstition, ritualism, slavishness and conformation to all way of doing things. It is the site of territoriality, aggression, racism, violence and hypersexuality. The reptilian complex is dominant in amphibians, fishes and reptiles. The Neanderthal brain has got cerebral cortical atrophy and cerebellar dominance. The reptilian brain and reptilian genes are dominant in Neanderthals pointing to interspecies hybridization of the first evolving Neanderthal females and matrilineal female only Neanderthal society. The interspecies hybrids are signified by the importance of even toed ungulates like pig and cattle in human culture and religion. The even toed ungulates include cattle, pig, deer, camel, sheep, goat and hippopotamus. The odd toed ungulates include rhinoceros and horses. The aquatic cetaceans like whales, dolphins and purpoises evolved from even toed ungulates. Dolphins can communicate with humans. The aquatic cetaceans and even toed ungulates together form a family called cetardiodactyla. The even toed ungulates form large social groups with hierarchy, harem groups and bachelor groups. They mark their territory through glandular secretions. The ungulates can swim and whales and dolphins can gallop in water. The pig antigens have great similarity with human antigens and pig organs can be xenotransplanted into humans. The rejection is due to the presence of retrovirus in the pigs which infects humans. The targeted deletion of retrovirus related DNA from pigs makes pig a valuable source for organ transplantation. The retroviral deleted pig has been cloned and developed into embryos and implanted into sows. The pigs serve as a reservoir for human organ transplant. Hog organs can be transplanted to humans if immunized against human serum. Horse serum is used to develop tetanus antibodies and snake anti-venom. The consumption of beef leads to the development of prion disease in humans. Porcine insulin can be injected into humans and porcine heart valves can be transplanted to humans. Cow products like milk, dung and urine are used as human medicines. Human stem cells injected into pig embryos have resulted in the development of human pig chimeras. These human pig chimeras can be used for organ transplantation. The development of human-ungulate chimera embryos points to the importance of interspecies hybridization in human evolution. This is signified by the worship of cow as Kamadhenu or mother Goddess in Hindu culture, the worship of Varaha, the boar as one of the avatars of Vishnu and the religious relationship between Satan and pigs in Semitic religions. The Hindu star signs in religion and astrology have a figurative animal representation. This points to interspecies hybridization playing an important role in evolution.

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The aquatic ape evolved from bonobo monkeys into homo neanderthalis in the brackish back waters of the peninsular India. The Neanderthals evolved by archaeal endosymbiosis. The archaea can oxidise cholesterol and ammonia for its energetics. The archaea binds to the toll receptor produces mitochondrial dysfunction and inhibition of TCA cycle and resultant activation of the glycolytic pathway for energetics. This produces the metabolic Warburg phenotype in homo neanderthalis. The homo neanderthalis depends upon ketone body oxidation for its energy needs and subsists on ketogenic diet. The consumption of ketogenic diet results in amino acid catabolism and generation of ammonia which can be oxidized by the archaea for its energy needs. The ammonia can combine with carbon dioxide producing urea which can be acted upon by archaeal urease generating ammonia again. The urea can inhibit mitochondrial function and produce protein modulation by carbomylation. It can thus affect the metabolonome. The inhibition of the TCA cycle channels acetyl CoA to the mevalonate pathway synthesizing cholesterol which can be oxidized by the archaea for its energy needs. The cholesterol ring oxidation generates pyruvate which is acted upon by SGPT generating glutamate which is catabolized by glutamate dehydrogenase generating ammonia. The ammonia can be oxidized by the archaea for its energetics. The ammonia can also be converted to urea by the urea cycle for ammonia storage. The urea mediated carbomylation of proteins results in somatic cell dysfunction and resultant takeover of the human cells by endosymbiotic archaea producing a zombie syndrome with the cell machinery taken over for cholesterol synthesis and oxidation as well as ammonia formation and oxidation subserving archaeal energetics. Urea serves as a substrate for ammonia storage. The aquatic ape evolved in the brackish backwaters of peninsular India and Kerala. The aquatic ape evolved from the bonobo monkeys and eventually developed into homo neanderthalis. The homo neanderthalis and the aquatic ape had a watery home of salty brackish water and the urea served as a substrate for balancing the salt content of the body fluids against the high salt content of the brackish water. The aquatic ape and the homo neanderthalis fed on fishes, mussels, crabs as well as tubers of water plants and this habit did not need strong males and was carried out by dominantly by females. The archaeal cholesterol catabolism produced low level of sex hormones in the aquatic ape and homo neanderthalis producing an asexual phenotype with alternate sexual behaviours. This colony of asexual phenotypes was matriarchal and female dominant with essentially served by groups of subservient male eunuchs. The high salt content of the body due to a life in brackish waters served to induce parthenogenesis in the dominant female. The urea synthesis from ammonia was also important in the induction of parthenogenesis. Urea can induce female germinal cells to

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develop into parthenogenetic embryos. Urea can promote transformation as well as preservation of stem cells and germ cells. The endosymbiotic archaea can produce germ cell transformation as well as stem cell transformation and induce parthenogenesis. Parthenogenesis would have been the dominant form of reproduction in the aquatic ape and homo neanderthalis. Urea synthesis can occur in the liver, the skin and brain of homo neanderthalis and to some extent in homo sapiens. The homo neanderthalic brain evolved due to endosymbiotic magnetotactic archaeal endosymbiosis. The magnetotactic archaea and porphyrions can produce increased absorption of low level EMF producing cortical atrophy and cerebellar dominance. This produces the cerebellar cognitive affective disorder homo neanderthalic brain phenotype with its impulsive behaviour, social withdrawal, creativity and autistic as well as schizophrenic phenotypes. The endosymbiotic archaea uses ammonia as an energy substrate and ammonia is stored in urea molecule for use as and when it is required. The urea synthesis in the homo neanderthalic brain is significant in this respect and serves the purpose of endosymbiotic archaeal energetics. The homo neanderthalic brain can be considered as quantal computing magnetotactic archaeal colony. The homo neanderthalic neuronal cells and circuitry are converted to zombie circuits by neuronal and synaptic protein carbomylation by brain urea. Thus the brain urea synthesis is of great importance in the functioning of the magnetotactic archaeal colony dominated zombie brain of homo neanderthalis. The urea synthesis is also important in the adaptation of the aquatic ape and homo neanderthalis to the salty brackish backwaters of Kerala and maintaining balance between sodium content of body fluids and brackish salt water. The urea molecule is also important in the generation and preservation of stem cells and germ cells as well as their parthenogenetic induction required for formation of embryos by asexual reproduction. Thus the ammonia oxidation and urea synthesis is crucial in endosymbiotic archaeal energetics which give life to the zombie scaffold of Neanderthal body and brain, the maintenance of the magnetotactic archaeal colony network which functions as the controlling power in the Neanderthal zombie brain and in the generation of stem cells and germ cells and the induction of parthenogenesis.

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Somatic parthenogenesis is due to climate change. Climate change can produce archaeal endosymbiosis and archaea and archaeal RNA viroid induced parthenogenesis. In response to stress somatic cells can get transformed to stem cells by endosymbiotic archaea. Stem cell metabolonomics- anaerobic glycolysis, PDH dysfunction, CoQ deficiency mitochondrial dysfunction, branched chain ketoacid dehydrogenase dysfunction,

homocystinuria and genomic demythelation, porphyrias and reactive oxygen species generation, SLOS (Smith Lemli Opitz) leading to cholesterol depletion, low sex hormones, vitamin D deficiency and bile acid deficiency. Stem cells can undergo endoreduplication, cell fusion and budding and bursting like bacteria producing polyploidy. These polyploidal cells can become parthogenic embryos. The polyploidal cells are stress resistant and genomically unstable. The polyploidal cells are genomically, metabolically and phenotypically different and unstable. They can get converted to different tissues like brain, liver and heart forming somatic embryos. Multiple somatic embryos with polyploidy produces multiple personality disorders – schizophrenia, autism and mood disorder. Multiple somatic embryos with polyploidy are antigenic and can produce an autoimmune disease. Multiple somatic embryos with polyploidy are genomically unstable can produce cancer. Parthogenesis can lead to social changes including matrilineal societies, alternate sexualities and different identities. Multiple somatic embryos with polyploidy are metabolically and genotypically unstable leads to neurodegeneration. Multiple somatic embryos with different metabolic instability can lead to metabolic syndrome. Archaea and RNA viroid induced mitochondrial dysfunction and upregulated glycolysis resulting in stem cell transformation of somatic cells. The somatic cells which are stem cell transform in the setting of immune activation and cytokine secretion can get converted to germinal cells – sperm and ova. This can result in fertilisation and parthenogenesis. Archaeal digoxin can produce intracellular magnesium deficiency and failed mitosis due to spindle dysfunction. This can produce polyploidal cells. The polyploidal cells can assume stem cell functions. The stem cells can mimic germline cells. The meiotic programs of the polyploidal stem cells can get activated generating cleavage embryos, morulas which can get converted to tumour spheroids. The spheroids can get converted to blastocyst and post implantation embryos producing oncogenesis. They can also dissemble producing metastasis.

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The Neanderthals ate a high protein high fat non-vegetarian diet by hunting and scavenging mammoths and other animals. This resulted in heavy load of tryptophan in the system producing tryptophanuria and tryptophanemia. The meat contains a high level tryptophan and haemoglobin which can induce the enzyme indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase which are both heme enzymes. The Neanderthals ate a low fibre diet resulting in decrease supply of short chain fatty acids especially butyrate from the gut. Butyrate can suppress indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase and a fibre deficient diet in Neanderthals can upregulate the activity of indoleamine 2,3-

dioxygenase and tryptophan 2,3-dioxygenase resulting in increased catabolism of tryptophan along the kynurenine pathway. Natural substances that are deficient in non-vegetarian diet like brassica alkaloids, curcumin, caffeine, tea and coca can inhibit indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase which becomes over active in Neanderthals producing tryptophan catabolism. The tryptophan is metabolised to formyl kynurenine, hydroxy kynurenine, kynurenic acid, 3-hydroxy anthranilic acid, quinolinic acid and NAD. Kynurenine can bind to AHR receptor producing immunomodulation and immunosuppression. It can produce immune tolerance in case of embyrogenesis, parthenogenesis, autoimmunity, cancer, lipopolysaccharide tolerance and chronic infection. The kynurenine can produce suppression of T cells and immunity leading to immunotolerance important in the above mentioned states. Thus kynurenine pathway flux can contribute to embyrogenesis and parthenogenesis by producing immune tolerance. The tumours can escape immune destruction by suppression of NK cells and T cells. Thus tumour metabolism depends upon activation of the tryptophan catabolism along the kynurenine pathway. The kynurenine pathway is activated in lipopolysaccharide tolerance and chronic infections producing immunosuppression and immunotolerance. The archaeal endosymbiosis depends upon immunotolerance and immunosuppression by activating tryptophan catabolism along the kynurenine pathway. The tryptophan catabolism along the kynurenine pathway can also contribute to psychiatric disorders. Kynurenine blocks the NMDA receptor and alpha 7 nicotinic receptor. This results in down regulation of NMDA and cholinergic transmission. Kynurenine can also upregulate dopaminergic transmission. This results in schizophrenia and autism. The tryptophan catabolism along the kynurenine pathway blocks serotonin synthesis from tryptophan contributing to depressive and anxiety disorders. The tryptophan catabolism along the kynurenine pathway can result in quinolinic acid synthesis and immune activation resulting in autoimmunity, immune tolerance as well as immune activation. Kynurenine can produce immunosuppression and NMDA blockade while quinolinic acid can produce immune activation and NMDA excitotoxicity. The tryptophan catabolism along the kynurenine pathway can generate quinolinic acid important in neurodegeneration. The tryptophan flux along the kynurenine pathway can generate quinolinic acid which can produce low grade inflammation and insulin resistance causing metabolic syndrome. Thus the flux of tryptophan along the kynurenine pathway can produce autoimmune disease, neurodegeneration, schizophrenia, depression, autism, cancer and metabolic syndrome. The induction of heme enzyme indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can lead to heme depletion and induction of ALA synthase increasing porphyrin synthesis and

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producing porphyrias. The porphyrins can form self-replicating porphyrions. The porphyrions form a template for the formation of RNA viroid, DNA viroid and isoprenoid organism which can symbiose together to form an endosymbiotic archaea by abiogenesis. The induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase produces kynurenine which can suppress the immune system generating immunotolerance and archaeal endosymbiosis. Thus the tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase results in systemic civilizational disorders in Neanderthal population. The tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can result in immune tolerance and immunosuppression by kynurenine producing archaeal endosymbiosis and neanderthalisation of the species. The tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can result in immunotolerance that can contribute to parthenogenetic embryogenesis or somatic pregnancy in multiple tissues in Neanderthals. The tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can produce an autistic schizophrenic tribe of Neanderthals with parthenogenesis and matriarchy.

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The archaeal endosymbiosis produces neanderthalisation of the species. The archaea can activate the enzyme AMPK (Adenosine monophosphate kinase). The Neanderthals consumed a ketogenic non-vegetarian diet rich in fat and protein. The neanderthalic ketogenic diet can induce AMPK activation. The aquatic ape phenotype ate a lot of fish diet and fish fatty acids can produce AMPK activation. The aquatic ape phenotype also ate lots of tubers of backwater plants like lotus and water lilies containing high amount of glucomannan producing AMPK activation. The water plant tubers contain high amount of fibers whose digestion generates short chain fatty acids like acetate, butyrate producing AMPK activation. Amino acids and fatty acids can induce AMPK activation. AMPK activation can induce by low glucose and oxygen deprivation states of ice age. The Neanderthals had a cerebellar dominant phenotype with increased sympathetic activity producing the impulsive fear, flight, fight phenotype. The catecholamines- epinephrine and norepinephrine and dopamine can produce AMPK activation. The AMPK activation can result in simultaneous mtor activation resulting in dendritic spine pruning defects and an autistic Neanderthal brain. AMPK activation results in simultaneous activation of the HIF alpha and the induction of the Warburg phenotype and stem cell phenotype. AMPK activation can induce UCP proteins uncoupling oxidative phosphorylation leading to mitochondrial dysfunction. AMPK activation leads to increased catabolism and reduced anabolism. AMPK activation results in

weight loss. AMPK activation can also lead to increased insulin signalling and IGF activity. The glycolysis, fatty acid oxidation and amino acid oxidation are increased. The protein synthesis is inhibited. The AMPK activation reduces fatty acid, cholesterol and triglyceride synthesis and increases their breakdown. The increased amino acid oxidation results in tryptophan catabolism producing increased amounts of kynurenines which are important in immune escape and parthenogenesis. The AMPK activation resulting in the stem cell phenotype results in generation of germ cells. The AMPK activation can activate the oocyte into development of parthenogenetic embryos. AMPK activation can increase intracellular calcium oscillations, increased intracellular ROS and AMP/ADP ratio resulting in the shock and wave activation of oocyte producing parthenogenesis. The AMPK activation can suppress the immune system producing immune escape and parthenogenetic embryogenesis. AMPK activation can increase the life span of the species and preservation of the Neanderthal phenotype. AMPK activation can produce cardiac protection and neuroprotection. AMPK activation is important in fertility, stem cell transformation and generation of germ cells. AMPK activation can uncouple oxidative phosphorylation as well as produce mitochondrial biogenesis. AMPK activation has an antioxidant effect by inducing NRF 2, superoxide dismutase and UCP. AMPK activation results in reduce generation of free radicals which act as messengers for endogenous retroviral replication. This produces a rigid genome, defective synaptic connectivity and cerebral cortical atrophy. AMPK activation induces glycogenolysis and inhibits glycogenesis. AMPK activation also increases glucose transport. The mitochondrial oxidative phosphorylation is blocked by AMPK activation by induction of UCP proteins. The glucose is converted to fructose by aldose reductase and sorbitol dehydrogenase induced by archaea and enters the fructolytic pathway. This results in fructosemia and increased synthesis of lipids and mucopolysaccharides resulting in a hibernation syndrome characteristic of Neanderthal metabolonomics. The AMPK activation also results in inhibition of protein synthesis and increasing autophagy/mitophagy and body renewal increasing the life span of the species. Thus the archaea induced AMPK activation leads to the generation of parthenogenetic species which is female and maternal dominant.

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Neanderthal evolution was determined by archaeal endosymbiosis. The human species evolved into homo neanderthalis by archaeal endosymbiosis. Archaeal endosymbiosis was mediated by the tryptophan catabolic kynurenine pathway. The kynurenines can produce immunosuppression and immune tolerance resulting in archaeal endosymbiosis. The kynurenine pathway results in blockade of the NMDA receptor, cholinergic nicotinic alpha 7

receptor, decrease production of serotonin and increase dopaminergic transmission. This produces an autistic, schizophrenic Neanderthal tribe with less of frontal executive function and more of cerebellar dominance affective impulsive type behaviour. The induction of indolamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase led to channelling of tryptophan catabolism along the kynurenine pathway. The Neanderthals ate a high protein non-vegetarian tryptophan diet leading to an induction of tryptophan catabolism. The Neanderthal diet was deficient in dietary fibre and fibre digestion generated short chain fatty acids especially butyrate resulting in increasing indolamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase activity and more of tryptophan catabolism. The kynurenine pathway results in generation of quinolinic acid which can produce chronic immune activation and insulin resistance. Quinolinic acid is also involved in neurodegeneration. The kynurenine induced immune cell as well as NK cell suppression can result in evolution of cancer. The archaeal endosymbiosis generated by kynurenine induced immunotolerance can lead on to cancer, autoimmune disease, metabolic syndrome, neurodegeneration, schizophrenia and autism by generation of archaeal cholesterol catabolite digoxin. Thus the higher load of tryptophan due to a meat diet and low fibre diet results in generation of kynurenine which has a ketamine-like action producing Neanderthal behaviour. The induction of heme enzymes indolamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase results in heme depletion, activation of ALA synthase and porphyrias. The porphyrins can self-organise to form porphyrions and can act as a template to generate isoprenoid organism, RNA viroids, DNA viroids which all symbiozed to form actinidic archaea. The porphyrions have a wave-particle existence and in the presence of membrane intercalated porphyrion mediated sodium potassium ATPase inhibition can result in a pumped phonon system and dipolar porphyrion mediated quantal perception. The porphyrion intercalated cell membrane and sodium potassium ATPase inhibition can result in increased intracellular calcium and decreased intracellular magnesium resulting in mitochondrial dysfunction, cell membrane dysfunction, golgi body related protein processing dysfunction, defect in DNA and RNA function and disordered cell function. This increased intracellular calcium and reduced magnesium due to sodium potassium ATPase inhibition can result in immune activation, glutamate excitotoxicity, oncogene activation and disease states. The immune tolerance produces cancer, stem cell transformation and parthenogenesis. The cancer stem cells can develop meiotic programs generating parthenogenetic embryos which can survive and grow in the presence of immune tolerance created by kynurenines. The multiple parthenogenic embryos can create multiple personalities leading to schizophrenia and autism, grow into cancer, its stem cell metabolism

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with increased glycolysis and mitochondrial dysfunction can produce metabolic syndrome, stem cell mediated increased glycolysis can lead to immune activation and the normal tissue dying at the expense of parthenogenic embryos can produce degeneration. The chronic inflammation induced by quinolinic acid and other tryptophan catabolites producing autoimmune disease and quinolinic acid related cell death and degeneration. The tryptophan catabolic pathway produces civilizational syndromes in Neanderthals leading to their extinction. The tryptophan loading in higher primates and homo sapiens due to increased meat eating carnivorous habits in Eurasian steppes resulted in kynurenine catabolite induced immunosuppression, immunotolerance, archaeal endosymbiosis and neoneanderthalisation. Thus tryptophan loading due to a high meat and low fibre diet mediated kynurenine generation and immunotolerance would have led to archaeal endosymbiosis and evolution of homo neanderthalis and homo neoneanderthalis. The Neanderthals due to archaeal endosymbiosis had stem cell transformation, activation of meiotic programs in the stem cells, generation of germ cells and parthenogenesis. This resulted in female dominance and matriarchal societies. The intraspecies hybridization and intragenomic conflict would also have contributed to parthenogenesis and reptilian gene expression consequent to interspecies hybridization and intragenomic conflict. Genes affected PDH, BKCD, SLOS, porphyria, Hartnup's disease. Decreased cholesterol CoQ and vitamin D. The Hartnup's trait would have developed to counteract the tryptophan loading in Neanderthals consequent to a high meat diet. This produces what is called as increased tryptophan catabolism and kynurenine catabolites mediated oshtoran syndrome described initially in the peri-Caspian areas. Endemic oshtoran syndromes would have existed in the Neanderthal population producing refractory thought and mood disorders, movement disorders including chorea and tic as well as schizophrenia and autism. The generation of tic disorders as a part of epidemic or endemic oshtoran syndrome would have led to vocal tic led language generation. The human language including ancient ones like Akkadian and Sanskrit developed first in peri-Caspian areas. The endemic oshtoran syndromes can also result in altered fat metabolism fatty liver and cirrhosis. It can produce adrenal dysfunction and hyperactivity producing sympathetic overactivity and parasympathetic underactivity leading to hypertension, vascular disease, cancer and autoimmune disease. The incidence of lupus-like syndromes and multiple sclerosis is high in endemic oshtoran syndrome. The tryptophan catabolism in oshtoran syndrome can produce cognitive dysfunction like Alzheimer's disease, Parkinson's disease and cell death. Parthenogenesis can lead to autistic phenotype with cerebellar dominance and a cerebellar cognitive affective disorder. Parthenogenesis induced reptilian gene expression

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can produce porphyrias and porphyrin induced extrasensory perception. This produces a creative tribe with quantal perception.

Archaeal endosymbiosis and neanderthalisation depended upon the kynurenine pathway mediated immunotolerance and immunoparalysis. The tryptophan catabolic pathway and kynurenine can have a ketamine-like effect due to NMDA blockade resulting in ecstasy, CCAS, cerebral cortical paralysis and extrasensory perception. The tryptophan catabolism is directed the kynurenine pathway resulting in depletion of melatonin and nocturnal activity and lack of sleep. The tryptophan catabolites kynurenine and kynurenic acid can produce decreased insulin synthesis, decreased insulin release, decreased insulin biological activity causing insulin resistance. Tryptophan catabolitic syndrome can result in sympathetic overactivity and a dysautonomic syndrome producing fear flight response and impulsivity. The induction of reptilian genes by intragenomic conflict and interspecies hybridization can result in expression of the shikimate pathway producing alkaloidal neurotransmitter synthesis- LSD, nicotine, strychnine, mescaline producing shamanic states and extrasensory perception. The induction of IDO and heme depletion can result in porphyrias and porphyrion mediated extrasensory perception. The heme depletion can reduce the heme enzyme activities. The heme enzyme cytochrome C oxidase is inactivated resulting in mitochondrial dysfunction. The heme enzymes catalase and glutathione peroxidase are inactivated producing free radical stress. The heme enzyme cytochrome P450 is inactivated producing defective bile acid synthesis due to cholesterol 7 alpha hydroxylase deficiency causing metabolic syndrome X due to bile acid deficiency. The heme enzyme cytochrome F450 deficiency produces defective aromatase and beta hydroxy steroid dehydrogenase producing reduced testosterone, estrogen and cortisol synthesis. This produces the asexual and alternate sexual Neanderthal state. The heme enzyme lanosterol 14 alpha demethylase is inactivated inhibiting cholesterol synthesis and cholesterol depletion syndrome. The heme enzyme retinoic acid hydroxylase and cholecalciferol hydroxylases are deficient producing lack of vitamin D and A and defective immunity and uncontrolled cell proliferation.

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The initial event is an increased tryptophan catabolic pathway producing immunotolerance and immunoparalysis mediated by kynurenine. This produces endosymbiotic archaeal growth and neanderthalisation. This results in conversion of somatic cells to germ cells and activation of meiotic programs resulting in parthenogenesis. The homo neanderthalis reproduces by parthenogenesis. There is a malfunction in sexual reproduction resulting in a parthenogenetic species. Parthenogenesis is induced by actinidic archaea and

RNA viroids. Climate change induced stress can produce parthenogenesis. The heme enzymes cytochrome P 450 dependent aromatase and beta hydroxy steroid dehydrogenase are defective resulting in lack of sex hormones producing asexuality and alternate sexuality. The heme enzymes NOS, CBS and HO1 are defective leading to lack of gasotransmitters NO, CO and H2S resulting in dysautonomia and sexual dysfunction. The parthenogenesis results in formation of multiple embryos in tissues causing multiple personalities and schizophrenia and autism. Parthenogenesis also produces cancer and autoimmune disease. Parthenogenesis in the brain can result in death of normal tissue and neurodegeneration. The stem cell metabolonomics of parthenogenetic embryos with increased glycolysis and mitochondrial dysfunction results in metabolic syndrome. The heme depletion leads to porphyrias and porphyrions causing quantal perception. The tryptophan catabolic pathway related kynurenine can produce a ketamine syndrome akin to schizophrenia. Similar schizophrenic and autistic syndrome can occur in Neanderthals due to tryptophan alkaloids synthesized by reptilian gene activation- LSD and mescaline. This produces a shamanistic spiritual quantal perceptive society. The porphyrion induced quantal perception of low level EMF can result in cortical atrophy and CCAS and an impulsive state, aggressive state, violence, criminality, spirituality and terrorism. The Neoneanderthals form small colonies and tribal groups. The porphyrion mediated quantal perception results in formation of cohesive small groups with communal living creating an anarchic society. The anarchic society arises due to a cerebellar cognitive affective disorder and cortical atrophy consequent to quantal perception. This anarchic society is small and tribal, violent and aggressive, spiritual and transcendental. This results in loss of national identities and recession to primitive tribal identities. The civilizational national identities collapse and are replaced by small tribal identities causing permanent war, instability and crisis. The parthenogenetic reproduction in Neanderthals and Neoneanderthals as well as the lack of sex hormones related asexuality and alternate sexuality produces a matriarchal female dominant small social groups. This can happen in the setting neoneanderthalisation consequent to endosymbiotic archaeal growth. The neoneanderthalic matriarchal society is female dominant and the males are reduced to a marginal role in society creating complexes of hatred and vulnerabilities. This can be compared to the creation of a society female amazons and male eunuchs. The world tends to be transformed into an anarchic society of Amazonian women and male eunuchs. This represents the castrated male syndrome with deprivation of dignity, integrity, passion and pride. The Neanderthal communities functioned as anarchic small societies with communal living. The concept of altruistic, egoistic and obsessive love and nuclear family was absent in

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them. They lived as small groups of 15-20 with group consciousness. The porphyrion induced extrasensory quantal perception resulted in well-bonded anarchic communities with communal living and parenting of children. Sexual relationships became partnership between equals and functional. They were promiscuous, self-sufficient and were not into socially sanctioned relationships like marriage. The duty of the male eunuchoid was to the small community which is served relationships in the community depended on a common communal consciousness based on extrasensory quantal perception. The neanderthalic and neoneanderthalic communities were matriarchal and gender equal and did not have any hierarchal leadership. There were no kings or queens and it was a stateless society. It was a voluntary association and there was no written law or control except by consensus. This is represented by ancient Indian societies in the Buddhist period of Indian history described as Janapadams. These were small stateless societies ruled by equality and consensus. The ancient Harappan civilization was also structured as a stateless anarchic society. The same holds good for the ancient Celtic kingdoms in Wales, Scotland, Basque, Catalonia and Brittany. The concept of anarchic societies is exemplified in the Mandalas in Southeast Asia comprising modern Indonesia, Vietnam, Laos, Cambodia, Myanmar and Thailand. These civilizations were extensions of the South Indian Dravidian civilization which derived from the Harappan civilization. In modern times the anarchic societies were revived in the form of modern Grama Swaraj of Gandhi whose philosophy was basically anarchic. Gandhi was from the area of India where the Harappan civilization thrived in prehistoric times. The same anarchic societies can be seen in Jewish Kibbutz. The Jews, Celts, Dravidians all had a neanderthalic origin. This formed the basis primitive, anarchic Neanderthal communities. The global warming related endosymbiotic archaeal growth results in neoneanderthalisation. The actinidic archaea mediated quantal perception of low level EMF results in cortical atrophy and cerebellar dominance resulting in a cerebellar cognitive affective disorder. The archaea mediated quantal perception by porphyrions results in small bonded Neoneanderthal communities with anarchic forms of organisation. The human civilization owing to global warming and neanderthalisation of the brain regresses to form small tribal anarchic communities in perpetual warfare resulting in the end of nation states. The neoneanderthalic world of anarchy has set in. The matriarchal societies with parthenogenetic female result in the syndrome of castrated male eunuchs and gender equal societies. Anarchy becomes the norm of political life in the world with its attendant catastrophic destructions. The male eunuch syndrome coupled with cerebellar cognitive affective disorder in an anarchic world with tribal identities can produce terrorism, criminality, creativity, aggression, violence, lack

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of empathy and an autistic tribe. The parthenogenetic Neoneanderthals will eventually become extinct due to lack of gene diversity in the population.

Climate change and exposure to low level internet EMF fields can induce HO1 activity and increased porphyrin synthesis. The porphyrins can form porphyrions which act as a template for the formation of RNA viroids, DNA viroids and isoprenoids by abiogenesis. They are symbiose to form actinidic archaea and RNA viroids. This results in endosymbiotic archaeal mediated stem cell transformation. The endosymbiotic archaea can induce toll receptor activation and activate HIF alpha resulting in stem cell metabolonomics with increased glycolysis and mitochondrial dysfunction. The endosymbiotic archaea can induce aldose reductase and fructose metabolism producing frucotsemia, lipid synthesis, mucopolysaccharidosis, porphyrias and hibernation/zombie syndromes. The increased glycolysis and Warburg phenotype can activate the immune system. The stem cells meiotic programs get activated and results in the formation of germ cells and parthenogenesis. Thus climate change and internet exposure results in a reproductive change to predominant asexual reproduction and parthenogenesis. This results in an asexual male eunuch phenotype. This results in gender equality and female dominance. The male population becomes dispossessed and is peripheral to the functions of society. This creates a society of male eunuchs and matriarchs. The society regresses to the matriarchal regime with widespread social consequences. The porphyrions and actinidic magnetotactic archaea can perceive low level EMF fields producing frontal cortical atrophy and cerebellar dominance. This produces the cerebellar cognitive affective disorder on an epidemic scale. The cerebellum is the site of impulsive behaviour, aggression, criminality, extrasensory perception, spiritual phenomena and dreams as well as trance. This results in an impulsive society without any logic or reason producing lawlessness and anarchy. This produces an anarchic world of Neoneanderthals with small social tribal groups and fall of organized civil society and nation states. The consequence of these are widespread lawlessness, wars, criminality, terrorism, sexual promisquity, demise of the nuclear family, alternate sexuality, communal living and breakdown of social structures of the homo sapien society. The anarchic eunuchoid world of Neoneanderthals opens up. Thus the climate change and internet produces a sexual change, anarchic social change, and reproductive change. The Neanderthals live in a dream world of imagination and paranormal phenomenon modulated by cerebellar hypertrophy and function. This produces a spiritual world of trances and religiosity. The Neanderthal brain activates the default network in the frontoparietal lobe producing day-dreaming, creative visualization,

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fantasy phenomena, depersonalisation and altered consciousness. The increased tryptophan catabolism produces kynurenine which blocks the NMDA receptor producing a ketamine or phencyclidine schizophrenic psychosis on an epidemic scale. The increased kynurenine can also block the alpha-7 nicotinic acetyl choline receptor, decreased serotoninergic activity and activates dopaminergic receptor. The tryptophan catabolic pathway also produces hallucinogenic alkaloids like strychnine, mescaline and LSD. This contributes to day-dreaming shamanic states in Neoneanderthals. This contributes to creativity, autism, schizophrenia, lack of social contacts, small tribal populations and a dream world in Neanderthal society. The increased porphyrions produces quantal perception and a dream world. The Neanderthals form small social groups and lack social contacts with out of kin population producing small autistic tribes. The Neoneanderthals and homo sapiens can be differentiated by the following phenomena of unconscious versus conscious, religion versus science, magic versus logic, dream versus waking and psychic versus material. The Neoneanderthals have great paranormal ability and the society was more religious and spiritual. They created cities of dreams which were classically psychopathic, magical and dream-like. The Neanderthal culture of magic, culture and spirit was different from that of homo sapiens. The myths, folklores and religiosity are derived from the Neanderthals. The worship of serpents as symbols of God and use of crystals and minerals as exemplified by Siddha forms of medicine are neanderthalic. They painted the skin and face creating extensive tattoos, wore ornaments and were extraordinarily ceremonial and ritualistic. They created dance as form of worship as comparable with the concept of Shiva as a celestial dancer. The neanderthalic tribes were nocturnal and were aware of the star constellations of big bear, little bear and draco. The Neanderthals were nocturnal tribe because of photosensitivity due to porphyrias which made them favour the night time to the day. The neanderthalic Gods were from the outer cosmos and the civilisation was seeded by intergalactic contacts mediated by cometary and asteroidal impacts. The comets and asteroids carried magnetotactic actinidic archaea which formed colonies transforming to homo neanderthalis. The Neanderthals were religious and have funeral ceremonies and believed in after life. The Dravidian civilization, Uluzzian and Chatelperonean civilization as well as the Basque and Catalan were neanderthalic. They were a civilization of dreams, rituals, dances, religiosity and trances owing to an epidemic CCAS. The Neanderthals were nocturnal tribe who worshipped the moon Goddess were matriarchal food gathering and women governed society. The homo sapiens were the sun worshipping patriarchal hunter warriors and male governed society. The females were mere adjuncts. The Neanderthal society was religious,

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ritualistic, symbolic with a cosmological approach to the world. It was a society of creative imagination. The society was predominantly parthenogenetic and asexual. The tantric form of spirituality and the sense of spiritual awakening indicated by the Kundalini showed the asexual nature and eunuchoid characteristic of the Neanderthal tribe. The cerebellum is the site of creative visualization, paranormal and dreams. The Neanderthal brain was cerebellar dominant creating trance-like states, day-dreaming, telepathy, psychic healing, poltergeist phenomena and religiosity. It was a high civilization of dreams mediated by the cerebellum. The cerebellum produces an ataxic motor syndrome as well as dysmetria of thought. The dysmetria of thought results in an autistic and schizophrenic tribe of Neanderthals and Neoneanderthals produced by climate change and internet exposure. The cerebellum is the site of common embryonal tumours and archaea induced parthenogenesis is higher in the cerebellum producing cerebellar hypertrophy, cerebellar dominance and cerebellar dysfunction. The archaea induced parthenogenesis produces a cerebellar dominance Neoneanderthal brain and the dream civilization of Neanderthals.

The homo sapiens mind can be characterized by the ego and the homo neanderthalis by id. Homo sapien qualities are sun, fascism, psychosis, logic, science, awake, adult, day, God, male and yang, versus the homo neanderthalis qualities are communism, moon, neurosis, intuition, religion, day-dreaming, child, night, devil, female and ying. The Cro-Magnons were hunters, patriarchal and sun worshipers. The homo neanderthalis were moon worshipers, patriarchal and food gatherers. The homo neanderthalis inhabited Europe and Middle-East. Gooch postulated the double helical concept of the mind as opposed to hemispheric dominance. The double helical mind of Gooch includes the cerebellum which is concerned with dreaming and creativity and the cerebrum concerned with logic. His concept of the sacred life of humans, the double helix of the mind, the cities of dreams, the creations of inner space and the divided self are described extensively in his work. The cerebellum is the site of paranormal and supernatural phenomena and gives rise to creations from the inner space. These are the creations from the inner space mediated by the cerebellum constituted the basis of vampires, troglodytes, demons and asuras. The cerebral cortex is the site of ego and the cerebellum the site of id. The cerebellum becomes dominant owing to archaea and viroid induced embryonal parthenogenesis. The interbreeding of Cro-Magnon with Neanderthals resulted in a burst of spirituality, artistry and creativity. The human behaviour can be explained by the double helical concept of mind. The socialists are neanderthalic and the Cro-Magnon conservatives. The Neanderthals were red-haired with slanting forehead and

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were worshippers of the moon. Moon worshipping was common in the Fertile Crescent which included Turkey, Egypt, Harappa, Sumeria and Arabia. The basis of these civilizations was lunar. The Neanderthal societies were matriarchal, completely promiscuous and sex driven and lead by women. They can be compared with the behaviour of bonobo primates. The Neanderthals were short-statured, left-handed and near-sighted. The Cro-Magnons were taller, long-sighted and right-handed. The Neanderthals had a communal living while the Cro-Magnons were monogamous and pair-bonding. The Neanderthals have a larger cerebellum, pyknic body type, non-athletic body type, left-handedness, less of male pattern baldness, prominent eye brows, recessive chins, were neurotic, and is less of psychosis, more hypnotisable and better night vision. The neanderthalic phenotype can be seen in drop-outs, addicts, alcoholics, unemployed and insomniacs. They lived in a world of day-dreaming and increased sexual activity as well as alternate sexuality. The Neanderthals were religiously organised were seen in south Europe, east Europe among the untouchables while the Cro-Magnons had large civil society and were seen in north Europe, west Europe, Brahmin communities and were taller. The political ideas of the French revolution, the Russian revolution and the Taliban were neanderthalic while that of the Nazis and KKK were Cro-Magnon. The Neanderthals were basically a day-dreaming, lunar society and were represented by the Celts, the witches, the Kabalist, the Rosicrucian and Judaist. The Nazi hatred of Jews and the western hatred of Islam are based on their neanderthalic origin. The homo sapiens on the other hand were worshippers of the sun. The Neanderthals were left-handed and left-leaning while the Cro-Magnons were right-handed and right-leaning. The Neanderthal societies are represented by Nairs, Nagas, Sakas, Scythians, Saxons, Celts, Berbers, Sumerians, Dravidians, Harappans, Etruscans and Egyptians. The moon was worshiped in Egypt, Babylon, India, Sumeria, Assyria, Akkadians and Chaldians. The moon God was called as sin and Thoth. They are the oldest human deities and are represented by Shiva in India. The Egyptian God Isis, the Celtic God Morgana, the Greek God Artemis, Aphrodite and Selene were representative of the lunar God. All the pagan festivals depend upon the lunar cycles. The moon God was worshipped in the Kabbala, the Talmuds, the Ur of Chaldees, Harappa and in all of the Fertile Crescent. The Harappan civilization had Shiva with his crescent symbol representing lunar worship. Soma was the presiding deity of Rig vedic ceremonies and is represented by moon. The soma is actually a drink of milk, honey, cannabis and other plant extracts which produced a hallucinatory state. The Harappan culture was neanderthalic and lunar centric as also the succeeding Shaivite sects of Hinduism like Aghoras and Nagas. The term for mental illness- lunatic came from lunar worship. The Cro-

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Magnon civilization was the opposite with sun being the dominant and logic being the culture of the society. The wars of history and hatred of civilizations like Jews, Islam and Hindus were based on neanderthalic origin and their lunar worship.

The Neanderthals evolved by seeding of cometary reptilian genes from outer space. The intergalactic porphyrions, RNA viroids, DNA viroids and template replicating magnetotactic archaea are the basis of cometary genes and seeding of life on earth. The template replication and parthenogenesis are related to evolution of Neanderthals. The intragenomic conflict and interspecies hybridization produces expression of reptilian genes in human- PDH deficiency, mitochondrial dysfunction, SLOS and porphyria. The parthenogenesis and matriarchy are related as also SLOS, asexuality and alternate sexuality. This produces on-hierarchal anarchic societies. The equality and gender sensitivity are related to the serpent cult of Khylst and Capracoites- Nagas and Asuras- Dravidians and Sumerians- Punts and Egyptians. The mother Goddess, the serpent people and Neanderthals are synonymous. The Dravidians, Celts, Egyptians, Jews, Berbers, Sakas, Nagas, Nairs, Asuras and Neanderthals were parthenogenetic. They consumed a high fat high protein diet- milk and honey, and had persisting adult lactose tolerance. This contributed to the consumption of a ketogenic diet, stem cell metabolonomics and parthenogenesis. Global warming and climate change can lead to archaeal endosymbiosis and neanderthalisation of the species. This leads to interspecies hybridization and intragenomic conflict contributing to parthenogenesis. Archaea and RNA viroids can induce parthenogenesis. Parthenogenesis can lead to matriarchy and female dominance. Parthenogenesis can produce expression of reptilian genes, porphyrias, extrasensory perception and autistic phenotype. This results in a creative, spiritual and matriarchal population. This has a similarity to an ant and bee colony. They behave like parthenogenetic Neanderthal societies. The reptilian gene expression produces the SLOS phenotype, low cholesterol and lack of sex hormones leading to asexuality and alternate sexuality.

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Parthenogenesis can lead to human disease. Parthenogenetic Somatic pregnancy can lead to cancer. Parthenogenetic embryos behave like autoantigens causing autoimmunity and autoimmune disease. The parthenogenesis and stem cell glycolysis can lead to lymphocyte activation and autoimmune disease. Parthenogenesis in brain can lead to multiple personalities causing schizophrenia and autism. Parthenogenetic embryos in neural tissue can lead to neurodegeneration by starving the host cells. Parthenogenesis leads on to Warburg phenotype. The Warburg phenotype contributes to anaerobic glycolysis, mitochondrial

dysfunction and metabolic syndrome. Parthenogenesis can lead to sexual evolution and alternate sexuality. Parthenogenesis will lead to a lack of demand for sexual reproduction. The expression of reptilian genes and SLOS phenotype produces cholesterol depletion and sex hormone deficiency. This produces an asexual phenotype. Extremes of climate change can produce archaeal symbiosis and parthenogenesis. This results in interspecies hybridization and intragenomic conflict. This leads to a matrilineal society and female dominance. The status of males is low in matrilineal societies. The Neanderthal societies were female dominant. The interspecies hybridization and intragenomic conflict leads to archaea and RNA viroid induced parthenogenesis. The reptilian gene expression produces SLOS phenotype, low cholesterol, low sex hormones and asexuality. This results in alternate sexuality, matrilineal societies, female dominance and DEVI syndrome. This contributes to autistic phenotype and neanderthalic autistic tribes.

The climate change induced parthenogenesis is due to mediation by archaea and RNA viroid. This produces matrilineal society, matriarchy and asexual societies. The reptilian gene expression and porphyrias leads to generation of porphyrions and extrasensory perception. Parthenogenesis and mother Goddess cult are related. The porphyrions produces extrasensory quantal perception and a quantal civilization. This leads to creativity and autism. The return of Nagas and Asuras due to climate change mediated archaeal endosymbiosis and parthenogenesis is related. Archaea and viroid can induce parthenogenesis. Archaea and RNA viroid induced mitochondrial dysfunction and upregulated glycolysis resulting in stem cell transformation of somatic cells. Stem cell metabolonomics include anaerobic glycolysis, PDH dysfunction, CoQ 2 mutation and mitochondrial dysfunction. The somatic cells which are stem cell transform in the setting of immune activation and cytokine secretion can get converted to germinal cells – sperm and ova. This can result in fertilisation and parthenogenesis. The porphyrions result from intragenomic conflict/interspecies hybridization and reptilian gene expression. The archaea can induce the HIF alpha and toll receptor activation resulting in glycolysis, mitochondrial dysfunction and GABA shunt. This also produces porphyrin synthesis and porphyrions. Porphyrins can produce extrasensory perception/quantal perception. Porphyrins can result in quantal perception and a quantal civilization existing in multiverse universes. The actinidic archaea and porphyrions have magnetotactic function resulting in mirror neuron function. This results in an autistic tribe. The cerebral cortex becomes atrophic and the cerebellar cortex dominant producing a cerebellar cognitive affective disorder. Interspecies hybridization and intragenomic conflict

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results in archaeal symbiosis and parthenogenesis. There is intragenomic conflict and interspecies hybridization producing this phenomenon. This results in reptilian gene expression and the shikimic acid pathway activation. This produces increased dopamine synthesis. Hyperdopaminergic transmission can produce endemic la tourette disease with motor and vocal tics. The hissing like vocal tics led to the evolution of language.

The Neanderthals consume high fat high protein, ketogenic diet. This resulted in hibernation, fructolysis and fructosemia, lipogenesis and fat deposition, mucopolysaccharide accumulation, parthenogenesis and stem cell metabolism, glycolysis and mitochondrial dysfunction. High fat high protein diet can lead to decreased SCFA, modulated histone acetylation, HERV expression and genomic modulation. Low levels of short chain fatty acids including butyrate consequent to a low fibre diet produces decreased HDAC is related to HERV expression. Reptilian gene expression can lead to homocystinurias and genomic expression modulation by demethylation. Neanderthalisation of the brain produces extrasensory perception, cortical atrophy, cerebellar dominance and cerebellar cognitive affective disorder (CCAS). The Neanderthal quotient is related to neuroticism, social fear, social avoidance, depression, bipolar disorders and autism. The Neanderthal quotient is related to fear of strangers, aggressive behaviour and social limitation. The NQ is also related to sexual promiscuity, emotional stoicism and fear in social situation. The NQ is also related to anxiety, xenophobia, lack of empathy, compassion. The NQ quotient is related to lack of working memory and consciousness and develop long-term memory. The NQ is related to risky physical, social and sexual behaviour. The NQ is related to small groups of 8-10 numbers. The Neanderthals groups were small. The homo sapien groups numbered 150 and were large. The NQ form alliances within kin groups and family ties were strong. The homo sapiens could form alliances with non-kin groups and large civilizations developed.

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The autistic and schizophrenic phenotype has been attributed as to refrigerated mother of the Neanderthal matriarchal phenotype by Leo Kanner and Bruno Bettelheim. The homo neanderthalis is female dominant matriarchal society. The Neanderthal brain contributes to the cerebellar cognitive affective disorder with a high incidence of autism and schizophrenia. This leads to parental coldness, obsessiveness, social isolation and ritualism. Autistic and schizophrenic neanderthalic mothers give rise to autistic and schizophrenic children. Autism and schizophrenia are disorders of socialization. The mothers of autistic and schizophrenic children are socially withdrawn and dominate their children leading on to what is called as Mahler syndrome or symbiotic psychotic syndrome. This is a syndrome of dedifferentiation

and deanimation with the child perceiving itself as an extension of the mother. The Neanderthals have magnetotactic archaea and porphyrion induced quantal perception and the dominant mother is undifferentiated psychologically from the Neanderthal children. The Neanderthal children of dominant mothers become socially withdrawn and isolated leading to paleologic thinking process contributing to autism and schizophrenia. The Neanderthal brain evolved due to archaeal symbiosis and archaeal cholesterol catabolism leads to decreased levels of cholesterol and bile acids in Neanderthals. The archaea use cholesterol as an energy substrate and have cholesterol oxidase activity. Bile acids can bind to olfactory receptors and can modulate the limbic lobe and human behaviour. Bile acids are involved in social bonding and bile acid deficiency in Neanderthals contributes to the formation of smaller societies and tight family groups. The bile acid deficiency contributes to decreased social bonding in Neanderthals and the genesis of autism and schizophrenia. The family relationships in the matriarchal society are tight creating the empty fortress syndrome.

The porphyrions have a wave-particle existence and can exist in the intergalactic space. They form a template for the formation of abiogenetic isoprenoid organism, DNA viroids, RNA viroids, double helical templates resembling reptiles. The formation of universe depends on abiogenetic magnetotactic archaea related intergalactic magnetic field. The cometary genes derived from intergalactic archaea and viroids by asteroidal impact seeds life in earth. The intergalactic archaea and cometary genes produced the evolution of life on earth. The actinidic archaeal colonies became multicellular and evolved into Neanderthals. The parthenogenetic embryos of Neanderthals have template mediated replication.

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The interspecies hybridization and intragenomic conflict resulted in archaea and viroid induced parthenogenesis. This produced matriarchy and female dominance. The reptilian gene expression and SLOS phenotype resulted in low cholesterol, sex hormones and asexuality. This produces a culture of sexual equality and alternate sexuality. The porphyrion induced ESP can lead to unified consciousness, equality and oneness. This produces a anarchic and non-hierarchal society. The neanderthalisation of the brain can lead to a cerebellar cognitive affective disorder. The CCAS leads to evolution of evilness and spirituality. The CCAS also results in illogical impulsive acts contributing to terrorism. The extrasensory perception and ataxia due to cerebellar dysfunction can lead to creativity, dance, painting and art.

The interspecies hybridization and intragenomic conflict can lead to parthenogenesis- archaea and viroid induced. The reptilian gene expression and stem cell metabolism leads to mitochondrial dysfunction, PDH deficiency, glycolysis, fructolysis, fructosemia, lipogenesis, hibernation syndrome, mucopolysaccharidosis and zombie syndrome. This produces metabolic syndrome with obesity and diabetes mellitus mimicking reptilian habits. The interspecies hybridization and intragenomic conflict leads to climate change, archaea and viroid induced parthenogenesis. The reptilian gene expression produces HIF alpha and increased glycolysis immune activation. The somatic parthenogenesis is related to autoimmunity. Reptilian gene expression and digoxin synthesis leads to immune activation. The reptilian genes and HLA expression are related. The HLA genes are derived from Neanderthals. The archaea and RNA viroid induced toll receptor activation can lead to immune activation. This produces autoimmune disease. The interspecies hybridization and intragenomic conflict can result in parthenogenesis, archaea and RNA viroid induced. The reptilian gene expression leads to porphyrias. The porphyrions are related to quantal perception. The Neanderthals are retroviral resistant with less of HERV expression leading to cortical atrophy and cerebellar dominance contributing to CCAS. The porphyrion induced quantal perception can lead to a quantal civilization. This results from neanderthalisation of the brain, decreased cerebral cortex. The interspecies hybridization and intragenomic conflict as said before can lead to parthenogenesis- archaea and viroid induced. The reptilian gene expression leads to porphyria and porphyrion generation producing ESP and quantal perception. The mirror neurons function is related to archaeal porphyrions. This leads to quantal perception and civilization as well as biological reincarnation.

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CHAPTER 11

FOSSILISED NEANDERTHAL MATRILINEAL SOCIETIES - NEONEANDERTHAL HYBRIDS, ENDOSYMBIOTIC ACTINIDIC ARCHAEA AND CIVILIZATIONAL DISEASES – THE AUTISTIC NEANDERTHALIC NAIR TRIBE

Introduction

The human genome has been found to have up to 10 percent Neanderthal genes. Neanderthal hybrids with homo sapiens species are common in global population. There is a high incidence of autism, schizophrenia and Neanderthal anthropometric phenotypes in the Nair community of Kerala. The Nair community is matrilineal and is one of the few functional matriarchies in the world and speaks the Dravidian language with similarities to Celtic, Scythian, Berber and Basque societies. The autistic brain is comparable to the large sized Neanderthal brain.[1] Autistic and schizophrenic metabolonomic patterns include low efficiency pyruvate dehydrogenase activity, mitochondrial dysfunction, dominant GABA shunt, Warburg glycolytic phenotype, hyperammonemia, hyperhomocysteinemia, porphyria, low cholesterol and bile acid levels.[2] Similar pattern of autistic metabolonomics is seen in the normal Nair population of Kerala. Neanderthal metabolonomic patterns include a low efficiency PDH activity.[3] Autistic, schizophrenic and matrilineal societies like Nair can be considered as fossilised remnants of the Neanderthal population.[4] Endosymbiotic actinidic archaea using cholesterol as an energy substrate has been described in systemic disease from our laboratory.[2] The autistic, schizophrenic and Nair population have increased actinide dependent cytochrome F420 activity suggestive of endosymbiotic archaeal growth. Archaeal induced PDH and mitochondrial suppression results in the autistic and schizophrenic metabolonomic cascade. The increased archaeal growth in extremophilic conditions of the Ice age would have contributed to the evolution of Neanderthal population.[5] There is a rising epidemic of autism and schizophrenia indicating Neanderthalisation of the human species due to global warming, extreme climate change and archaeal growth. Global warming itself could be construed as due to increased archaeal growth and methanogenesis. It would indicate the emergence of cultural, linguistic, psychological, neurological, metabolic, immune and anthropometric phenotype- homo archaeax neanderthalis. The aim of the study aimed to detect fossilized Neanderthal matrilineal societies and new Neanderthal hybrids in relation to civilizational diseases.

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Materials and Methods

Four groups, 25 numbers in each group were chosen for the study- the autistic population diagnosed according to DSM criteria, the normal Nair population, the normal non-Nair population and civilizational disease group including metabolic syndrome X, Alzheimer's disease, cancer, schizophrenia and multiple sclerosis. The matrilineal characteristics and Neanderthal anthropometric characteristics of normal Nair and non-Nair population as well as autistic and schizophrenic population were studied. The blood samples were drawn in the fasting state before treatment was initiated. The estimations done in the blood samples collected include cytochrome F420 activity, cholesterol oxidase activity-cholesterol ring oxidase activity, cholesterol side chain oxidase activity and cholesterol aromatase activity, digoxin, lactate, pyruvate, ammonia, ATP, glutamate, acetyl CoA, acetyl choline, ALA, homocysteine, cholesterol and bile acid levels as well as cyto C and hexokinase levels activity. Archaeal cholesterol catabolism was studied as follows- Plasma from fasting heparinised blood was used and the experimental protocol was as follows: (I) Plasma+phosphate buffered saline, (II) same as I+cholesterol substrate, (III) same as II+cerium 0.1 mg/ml, and (IV) same as II+ciprofloxacine and doxycycline each in a concentration of 1 mg/ml. Cholesterol substrate was prepared as described by Richmond. Aliquots were withdrawn at zero time immediately after mixing and after incubation at 37 ^{o}C for 1 hour. The following estimations were carried out:- Cytochrome F420, polycyclic aromatic hydrocarbon, hydrogen peroxide, pyruvate, ammonia, glutamate, digoxin, butyrate, propionate and bile acids. Cytochrome F420 was estimated flourimetrically (excitation wavelength 420 nm and emission wavelength 520 nm). Polycyclic aromatic hydrocarbon was estimated by measuring hydrogen peroxide liberated by using glucose reagent. Informed consent of the subjects and the approval of the ethics committee were obtained for the study. The statistical analysis was done by ANOVA.

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Table 1. Incidence of autism in Nair, autistic and non-Nair population

Groups	Autism	Percentage
Nair	68 cases	68
Non-Nair	32 cases	32
Total	100	

Table 2. Incidence of schizophrenia in Nair and non-Nair population

Groups	Schizophrenia	Percentage
Nair	30 cases	30
Non-Nair	70 cases	70
Total	100	

(Nair population is 7% of Kerala population)

Table 3. Anthropometric features in Nair, autistic and non-Nair population

Groups	Neanderthal Anthropometric	Total	Percentage
Nair	72 cases	100	72
Non-Nair	21 cases	100	21
Autism	81 cases	100	81

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Table 4. Autistic metabolonomics

		Nair	Non-Nair	Schizo	AD	MS	Cancer	DM	Autism	F value	P value
RBC Digoxin (ng/ml RBC Susp)	Mean	1.41	0.18	1.38	1.10	1.21	1.27	1.35	1.19	60.288	< 0.001
	± SD	0.23	0.05	0.26	0.08	0.21	0.24	0.26	0.24		
Cytochrome F 420	Mean	4.00	0.00	4.00	4.00	4.00	4.00	4.00	4.00	0.001	< 0.001
	± SD	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
H_2O_2 (umol/ml RBC)	Mean	278.29	111.63	274.88	277.47	280.89	278.19	280.89	274.52	713.569	< 0.001
	± SD	7.74	5.40	8.73	10.90	11.25	12.80	10.58	9.29		
NOX (OD diff/hr/mgpro)	Mean	0.04	0.01	0.04	0.04	0.03	0.04	0.04	0.04	44.896	< 0.001
	± SD	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01		
TNF ALP (pg/ml)	Mean	78.63	9.29	78.23	79.65	80.18	79.18	78.36	76.71	427.654	< 0.001
	± SD	5.08	0.81	7.13	5.57	5.67	5.88	6.68	5.25		
ALA (umol24)	Mean	63.50	3.86	66.16	67.32	64.00	67.67	64.72	68.16	295.467	< 0.001
	± SD	6.95	0.26	6.51	5.40	7.33	5.69	6.81	4.92		
SE ATP (umol/dl)	Mean	2.24	0.02	1.26	2.06	1.63	1.48	1.97	2.03	67.588	< 0.001
	± SD	0.44	0.01	0.19	0.19	0.26	0.32	0.11	0.12		
Cyto C (ng/ml)	Mean	12.39	1.21	11.58	11.94	11.81	13.00	12.95	12.48	445.772	< 0.001
	± SD	1.23	0.38	0.90	0.86	0.67	0.42	0.56	0.79		
Lactate (mg/dl)	Mean	25.99	2.75	22.07	22.04	23.32	22.20	25.56	21.95	162.945	< 0.001
	± SD	8.10	0.41	1.06	0.64	1.10	0.85	7.93	0.65		
Pyruvate (umol/l)	Mean	100.51	23.79	96.54	97.26	102.48	96.58	96.30	92.71	154.701	< 0.001
	± SD	12.32	2.51	9.96	8.26	13.20	8.75	10.33	8.43		
RBC Hexokinase (ug glu phos/ hr/mgpro)	Mean	5.46	0.68	7.69	8.46	8.56	7.82	7.05	6.95	18.187	< 0.001
	± SD	2.83	0.23	3.40	3.63	4.75	3.51	1.86	2.02		
ACOA (mg/dl)	Mean	2.51	16.49	2.51	2.19	2.03	2.34	2.17	2.42	1871.04	< 0.001
	± SD	0.36	0.89	0.57	0.15	0.09	0.43	0.40	0.41		
ACH (ug/ml)	Mean	38.57	91.98	48.52	42.84	39.99	42.51	41.31	50.61	116.901	< 0.001
	± SD	7.03	2.89	6.28	8.26	12.61	11.58	10.69	6.32		
Glutamate (mg/dl)	Mean	3.19	0.16	3.41	3.53	3.58	3.28	3.53	3.30	200.702	< 0.001
	± SD	0.32	0.02	0.41	0.39	0.36	0.39	0.44	0.32		
Se. Ammonia (ug/dl)	Mean	93.43	23.92	94.72	95.37	93.42	93.20	93.38	94.01	61.645	< 0.001
	± SD	4.85	3.38	3.28	4.66	3.69	4.46	7.76	5.00		
Bile Acid (mg/ml)	Mean	25.68	140.40	22.45	26.26	24.12	23.43	22.77	23.16	635.306	< 0.001
	± SD	7.04	10.32	5.57	7.34	6.43	6.03	4.94	5.78		
Cholesterol (mg/dl)	Mean	129.23	237.36	126.31	130.14	126.67	130.52	129.23	125.86	312.947	< 0.001
	± SD	10.03	38.07	6.93	6.64	5.70	8.01	5.97	7.79		
Homocysteine (mg/dl)	Mean	37.49	9.18	31.50	31.75	38.39	39.64	39.38	41.55	46.516	< 0.001
	± SD	9.17	0.80	4.07	4.62	8.75	9.21	7.00	7.62		

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Table 5. Cholesterol oxidase activity

		Nair	Non-Nair	Schizo	AD	MS	Cancer	DM	Autism	F value	P value
CYT F420 % (Increase with Cerium)	Mean	23.46	4.48	23.24	23.12	22.12	22.79	22.59	21.68	306.749	< 0.001
	± SD	1.87	0.15	2.01	2.00	1.81	2.13	1.86	1.90		
CYT F420 % (Decrease with Doxy+Cipro)	Mean	59.27	18.24	58.72	56.90	61.33	55.90	57.05	57.93	130.054	< 0.001
	± SD	8.86	0.66	7.08	6.94	9.82	7.29	8.45	9.64		
PAH % change (Increase with Cerium)	Mean	22.67	4.45	23.01	23.26	22.83	22.84	23.40	22.61	391.318	< 0.001
	± SD	2.29	0.14	1.69	1.53	1.78	1.42	1.55	1.42		
PAH % change (Decrease with Doxy+Cipro)	Mean	57.69	18.25	59.49	60.91	59.84	66.07	65.77	64.48	257.996	< 0.001
	± SD	5.29	0.72	4.30	7.59	7.62	3.78	5.27	6.90		
Digoxin (ng/ml) (Increase with Cerium)	Mean	0.51	0.11	0.55	0.55	0.52	0.54	0.47	0.53	135.116	< 0.001
	± SD	0.05	0.00	0.06	0.03	0.03	0.04	0.04	0.08		
Digoxin (ng/ml) (Decrease with Doxy+Cipro)	Mean	0.20	0.05	0.22	0.19	0.21	0.21	0.20	0.21	71.706	< 0.001
	± SD	0.03	0.00	0.04	0.04	0.03	0.04	0.03	0.04		
Bile Acids % change (Increase with Cerium)	Mean	22.61	4.29	23.20	22.12	21.95	22.98	22.87	22.21	290.441	< 0.001
	± SD	2.22	0.18	1.87	2.19	2.11	2.19	2.58	2.04		
Bile Acids % change (Decrease with Doxy+Cipro)	Mean	66.62	18.15	57.04	62.86	65.46	64.96	64.51	63.84	203.651	< 0.001
	± SD	4.99	0.58	4.27	6.28	5.79	5.64	5.93	6.16		
Pyruvate % change (Increase with Cerium)	Mean	20.94	4.34	20.99	22.63	21.59	21.19	20.67	21.91	321.255	< 0.001
	± SD	1.54	0.21	1.46	0.88	1.23	1.61	1.38	1.71		
Pyruvate % change (Decrease with Doxy+Cipro)	Mean	62.76	18.43	61.23	56.40	60.28	58.57	58.75	58.45	115.242	< 0.001
	± SD	8.52	0.82	9.73	8.59	9.22	7.47	8.12	6.66		
H_2O_2 % (Increase with Cerium)	Mean	23.81	4.43	22.50	22.65	21.14	23.35	23.27	23.52	380.721	< 0.001
	± SD	1.19	0.19	1.66	2.48	1.20	1.76	1.53	1.49		
H_2O_2 % (Decrease with Doxy+Cipro)	Mean	61.08	18.13	60.21	60.19	60.53	59.17	58.91	63.24	171.228	< 0.001
	± SD	7.38	0.63	7.42	6.98	4.70	3.33	6.09	7.36		
Butyrate % (Increase with Cerium)	Mean	22.29	4.41	21.88	23.66	22.92	23.81	24.10	22.76	403.394	< 0.001
	± SD	1.33	0.15	1.19	1.67	2.14	1.90	1.61	2.20		
Butyrate % (Decrease with Doxy+Cipro)	Mean	65.38	18.63	66.28	65.97	67.54	66.95	65.78	67.63	680.284	< 0.001
	± SD	3.62	0.12	3.60	3.36	3.65	3.67	4.43	3.52		
Propionate % change (Increase with Cerium)	Mean	22.13	4.34	23.02	23.09	21.93	23.12	22.73	22.79	348.867	< 0.001
	± SD	2.14	0.15	1.65	1.81	2.29	1.71	2.46	2.20		
Propionate % change (Decrease with Doxy+Cipro)	Mean	66.26	18.24	67.61	65.86	63.70	65.12	65.87	64.26	364.999	< 0.001
	± SD	3.93	0.37	2.77	4.27	5.63	5.58	4.35	6.02		
ATP synthase % (Increase with Cerium)	Mean	4.40	23.67	23.09	23.58	23.52	24.01	23.72	22.60	449.503	< 0.001
	± SD	0.11	1.42	1.90	2.08	1.76	1.17	1.73	1.64		

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		Nair	Non-Nair	Schizo	AD	MS	Cancer	DM	Autism	F value	P value
ATP synthase % (Decrease with Doxy+Cipro)	Mean	18.78	67.39	66.15	66.21	67.05	66.66	66.25	66.86	673.081	< 0.001
	± SD	0.11	3.13	4.09	3.69	3.00	3.84	3.69	4.21		
Hexokinase % change (Increase with Cerium)	Mean	4.21	23.01	23.33	22.96	22.81	22.53	23.23	22.88	292.065	< 0.001
	± SD	0.16	2.61	1.79	2.12	1.91	2.41	1.88	1.87		
Hexokinase % change (Decrease with Doxy+Cipro)	Mean	18.56	65.87	62.50	65.11	63.47	64.29	65.11	65.45	317.966	< 0.001
	± SD	0.76	5.27	5.56	5.91	5.81	5.44	5.14	5.08		

Results

The results of the study were as follows. The Nair, schizophrenic and autistic group had: (1) increased cytochrome F420 activity, cholesterol oxidase activity, ring oxidase activity, aromatase activity and digoxin synthesis, (2) had decreased PDH activity as indicated by increased pyruvate and lactate levels with low acetyl CoA levels, (3) had increased glycolysis as indicated by increased hexokinase activity and mitochondrial dysfunction as noted by increased cyto C activity in the serum and low ATP levels, (4) had low cholesterol and bile acid levels and increased homocysteine levels, (5) had increased GABA shunt pathway as indicated by increased pyruvate, glutamate and ammonia levels, and (6) had increased porphyrin synthesis from substrates glycine and succinyl CoA derived from GABA shunt pathway as indicated by increased ALA levels. The Nair, schizophrenic, autistic and civilizational disease group had features of Neanderthal metabolism as indicated by pyruvate dehydrogenase suppression.

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There is an increased incidence of autism and schizophrenia in the Nair community of Kerala with 68 percent of the autistic patient population of 1500 attending the Metabolic Centre belonging to this matrilineal community. The incidence of schizophrenia in the Nair community is around 30 percent. The autistic population, schizophrenic and the Nair population have the Neanderthal anthropometric phenotype with slanting forehead, large face, stubby nose, prominent mandibles, low 2D:4D ratio, large coarse trunk, macrocephaly and longer second toe as compared to big toe.

Discussion

Matrilineal societies and Neanderthal hybrids

Reports indicate that the autistic brain is larger and similar in size to the Neanderthal brain.[6-8] Neanderthal societies were matrilineal and matriarchal with female dominance.

Autistic, schizophrenic and Nair matrilinearity had also similarities with Neanderthal clusters. Matrilineal culture and matriarchy are seen in the Nair societies and they speak a Dravidian language. The language and culture of the matrilineal Nair community is similar to the Celtic, Basque, Berber and Scythian societies. Matrilineal Nair society with its high incidence of autism and Neanderthal anthropometric characteristics would represent fossilized remnants of the Neanderthal population along with the Celtic, Jews, Sumerian, Minoan, Harappan, Scythian, Basque, South African bushmen and Berber societies. These societies are predominantly characterized by the use of Dravidian linguistics. The Neanderthal fossilized remnant societies described above probably inhabitant the mythological Lemurian continent the remnants of which have been described under the Indian ocean. The end of the ice age resulted in floods and break up of Lemuria and the population migrated to the Eurasian land mass creating the Harappan civilization, the Sumerian civilization, the Egyptian civilization, Celtic civilization and Minoan civilization which were all co-terminus Dravidian and matrilineal. They can be compared to the mythological Asuras in the Vedas whose society was also matrilineal. There was gender equality and matriarchal dominance. The asuric society of the Vedas was democratic and more equal. They had extrasensory perceptive capabilities and extreme form of spirituality. The asuric society is represented in the Dravidian South India where festivals like Onam in celebration of the Asura king Mahabali are celebrated. It is anthropological evidence of the asuric origin of the Dravidians. The Dravidians were originally supposed to have evolved in the continent of Lemuria in the Indian ocean. Traces of this massive supercontinent involving land masses of South India, Southern Africa, Australia and Antarctica have been detected in the oceanic bed of the Indian ocean. Certain diseases like endomyocardial fibrosis, chronic calcific pancreatitis, multinodular goiter and mucoid angiopathy are specific for south India, South Africa and Australian aboriginals. All these communities South Indian including Nairs, Bushmen and Australian aboriginals speak Dravidian related languages and are matrilineal. These endemic diseases have been related to the actinidic monazite and illmenite seen in the ocean shores of South India, South Africa and Australia. This is further medical anthropological evidence of the origin of matrilineal neanderthalic asuric communities from the Lemurian supercontinent. This supercontinent also encompassed parts of Antarctica. The Neanderthal skin colour was more lighter and fairer to increase UV absorption and correct vitamin D deficiency seen in this groups which would have originated in the Antarctic part of the Lemurian supercontinent. Life originated in the Lemurian supercontinent on actinidic substrates forming the original archaeal cell which evolved to multicellular forms. The Neanderthal

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origin would be related to massive extremophilic archaeal expansion which occurred in the ice age. The Asuras of Vedas and Rig vedic descriptions would fit in with a Southern polar origin of the epic. The principle God of the Rig veda was Varuna which was an oceanic God and Asura. The other Gods of the Rig Veda- Rudra, Vayu and Agni were also Asuras. This can indicate a Southern Lemurian origin for Vedic mythology and its asuric Vedic Gods. The asuric society was democratic, more social, spiritual, eco-conscious, gender equal, matrilineal and socialistic. The ice age ended and the floods that occurred following it as well as the massive Tsunamis in the Indian ocean broke up the Lemurian land mass. This has been described in Vedic literature on the Dravidian King Manu who survived the flood and migrated north to the Eurasian land mass. The asuric Dravidians who migrated north developed the modern cities of Harappa and Mohenjo-Daro, Sumeria, Minoan civilization of Crete, the Egyptian civilization, the Basque Celt and Berber societies. The mythology of these matrilineal societies has Siva as their God, identified in different names like Minoan Zeus, the Celtic Cerannos and the Irish Dragda. The language of the societies could be related to Dravidian and the structure of the society was matrilineal like the Asuras. The homo sapien groups evolved in Africa in relation to HERV sequences in the human genome. HERV sequences in the genome contributed to fluidity and dynamic nature of the genome leading to the evolution of the prefrontal cortex dominant homo sapien brain. The homo sapiens migrated from Africa northwards in the central Eurasian landmass. They were a primitive nomadic society without an urban culture, mythology, language or arts. The Devas of the Rig Veda would be these homo sapien groups which migrated out of Africa into Europe at a later stage and settled in central Eurasia with their lighter colour as an adaptation for increased UV absorption and vitamin D synthesis in the colder regions. The battles between the Asuras and Devas were attempts by the central Asian homo sapien population to overcome and subdue the Asuras to inhabited the Indus Valley and created the civilization in Harappa and Mohenjo-Daro. The defeated asuric Dravidians of Mohenjo-Daro and Harappa migrated south and settled in their original home land in South India. The matrilineal Dravidian Nair community with increased autistic rates belongs to this group.

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Autistic and Neanderthal metabolonomics

Autistic, schizophrenic and Nair metabolonomic patterns had similarities with Neanderthals population. Neanderthals have a low efficient pyruvate dehydrogenase activity.[9] The Neanderthals diet was rich in protein and fat and low in carbohydrate. Ketone body was used as the energy fuel and does not need the insulin receptor for metabolism. Therefore

insulin resistance developed as a part of the Neanderthal diet and the Neanderthal phenotype is akin to the metabolic syndrome phenotype. As there was less need to metabolize glucose owing to an intake of high fat, high protein diet the enzyme pyruvate dehydrogenase would have evolved into a low efficiency system. Insulin resistance would have contributed to lipogenesis as a protective adaptation against the cold climate of the Ice age. Insulin resistance and ketogenic diet would have contributed to the longevity of the Neanderthal population. Insulin resistance has been related to autism. Pyruvate dehydrogenase deficiency leads to low acetyl CoA levels. This leads to a down regulated mevalonate pathway and low cholesterol synthesis. Low cholesterol levels are related to autism. Smith Lemli Opitz syndrome is related to autism and schizophrenia. Low cholesterol values would have contributed to vitamin D deficiency in Neanderthals. Vitamin D deficiency and rickets would explain the skeletal abnormalities and macrocephaly of Neanderthals. Vitamin D deficiency would have led to fairer complexion of the Neanderthals in view of increased need of cutaneous UV ray absorption to promote increased vitamin D synthesis to correct its deficiency. Cholesterol catabolizing endosymbiotic actinidic archaea has been described in systemic and neuropsychiatric disease from our laboratory. There is increased actinide dependent cytochrome F420 activity in autistic, schizophrenic and normal Nair population. This indicates increased endosymbiotic archaeal growth which suppresses pyruvate dehydrogenase activity. Autistic, schizophrenic and nair metabolonomic patterns include low efficiency pyruvate dehydrogenase activity contributing to pyruvic acidemia. Pyruvate is not converted to acetyl CoA. Acetyl CoA deficiency results in mitochondrial oxidative phosphorylation defects and mitochondrial dysfunction. Energy is obtained from glycolysis and this leads to the genesis of the Warburg phenotype. The actinide dependent hexokinase activity and actinide dependent ATP synthase activity were high but the blood ATP levels were low. The cyto C activity in the blood was high indicating mitochondrial dysfunction. The pyruvate is channeled to the GABA shunt pathway to glutamate. Glutamate is acted upon by glutamate dehydrogenase generating ammonia which acts as a gasotransmitter modulating thalamo-cortico-thalamic GABA/NMDA function and consciousness. The GABA shunt pathway also generates succinyl CoA and glycine which are substrates for porphyrin synthesis contributing to porphyrinuria. Since glycine is utilized for porphyrin synthesis it is not available for cystathionine synthesis. This contributes to hyperhomocysteinemia and hypermethionemia modulating genomic methylation patterns. Hyperhomocysteinemia, hyperammonemia and porphyrinuria are characteristic of autism and schizophrenia. The low acetyl CoA leads to low cholesterol synthesis and low bile acid as well as vitamin D

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synthesis. Vitamin D and bile acids bind to the VDR producing immunosuppression and their deficiency contributes to the autoimmunity of autism and schizophrenia. Vitamin D and bile acid deficiency can modulate neocortical development and contribute to autism and schizophrenia. Low cholesterol levels can contribute to low sex hormone levels and less well defined gender phenotypes in autism and schizophrenia. Pyruvate dehydrogenase forms part of the enzyme system 2-oxoacid dehydrogenases which were all deficient in Neanderthals, schizophrenic and autistic groups. The other enzymes included are branched chain ketoacid dehydrogenase, glycine cleavage enzyme- glycine decarboxylase which are deficient in autism, schizophrenic and Neanderthals. The branched chain ketoacid dehydrogenase deficiency leads to increase in branched chain amino acids leucine, isoleucine and valine. The increase in branched chain amino acids leads to metabolic syndrome X and diabetes mellitus. The increase in branched chain amino acids can also produce immune activation and autoimmune disease. The increase in branched chain amino acids can affect the transport of tryptophan and tyrosine through the neutral amino acid transporter leading to deficiency of monoamine transmission. The branched chain amino acids can increase NMDA activation producing neuronal excitability contributing to neurodegenerative disorders. The alteration in NMDA and monoamine transmission can lead to neuropsychiatric disease. The branched chain amino acids can increase the muscle bulk and strength contributing to the Neanderthal phenotype. The deficiency of glycine cleavage enzyme- glycine decarboxylase can lead to accumulation of glycine. The branched chain amino acids itself inhibits the glycine cleavage enzyme. The PDH deficiency leads to increased glycolysis contributing to increased phosphoglycerate, phosphoserine and serine synthesis. L serine is converted to D serine by serine racemase. D serine and glycine can increase NMDA transmission contributing to neuropsychiatric diseases like autism and schizophrenia as well as neurodegeneration. Glycine itself is an inhibitory neurotransmitter in the brain. Serine is immune activating contributing to autoimmune disease. Glycine is immunosuppressive. Serine/glycine ratios can modulate immunity and NMDA transmission. Serine can contribute to cell proliferation and cancer. Glycine on the other hand inhibits cell proliferation. Serine by the action serine palmitoyl transferase can generate sphingolipids. Deoxysphingolipids are atherogenic and contribute to the metabolic syndrome X. Thus the 2 oxoacid dehydrogenases- pyruvate dehydrogenase, branched chain keto acid dehydrogenase and glycine decarboxylase dysfunction in Neanderthals and autism can contribute to neuropsychiatric, neurodegenerative, cancer, autoimmune disease and metabolic syndrome. Alterations in serine/glycine ratios and organic acidurias are seen in autism, schizophrenia, autoimmune

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disease, tumours, metabolic syndrome and degenerations. As said before the hyperammonemia, porphyria and hyperhomocysteinemia seen in autism and schizophrenia are contributed by Neanderthal genes and Neanderthal metabolism.

Autistic metabolonomics and systemic diseases

The autistic and schizophrenic neanderthalic metabolonomic phenotype is also seen in cancer, autoimmune disease, degeneration, metabolic syndrome X which can coexist with schizophrenia. This is due to a vagal neuropathy due to defective acetyl choline synthesis consequent to lack of substrate acetyl CoA. This also leads to sympathetic overactivity. Vagal neuropathy is associated with immune activation and autoimmune disease. Vagal neuropathy can contribute to insulin resistance and increased sympathetic activity to neoplastic transformation. The cholesterol synthetic defect leads to defective synaptogenesis seen in autism and schizophrenia. Cholesterol derived bile acid and vitamin D deficiency can contribute to schizophrenia and autism. Cholesterol is involved in contact inhibition and when the membranes are defective can lead to cell proliferation. Low cholesterol levels lead to low vitamin D and bile acid levels both of which bind to VDR producing immunosuppression. This can contribute to autoimmunity. Vitamin D deficiency can contribute to insulin resistance and metabolic syndrome phenotype in Neanderthals. Bile acids function as hormones regulating lipid and glucose metabolism and its deficiency can also contribute to syndrome X and insulin resistance. The Warburg phenotype can also contribute to civilizational diseases. The increase in mitochondrial PT pore hexokinase can contribute to cell proliferation and cancer. The increase in GAPD (glyceraldehyde 3 phosphate dehydrogenase) can contribute to its ADP ribosylation and nuclear cell death. The increase in glycolysis can contribute to lymphocytes activation and autoimmune diseases. The MHC genes are of Neanderthal origin and autoimmunity is related to Neanderthal MHC alleles. Autoimmunity and antibrain antibodies are characteristic of autism and schizophrenia. The phosphoglycerate, a glycolytic metabolite can be converted to serine a modulator of NMDA receptor and inhibitory neurotransmitter glycine. The increase in fructose 1,6 diphosphate results in its channeling to the pentose phosphate pathway generating NADPH stimulating NOX and redox stress contributing to disease. NOX is also involved in NMDA activity. Redox stress and increased NMDA activity contributing to thalamocorticothalamic pathway dysfunction is important in schizophrenia. Thus the generation of atavistic archaeal metabolic, immune and neuronal phenotype can contribute to schizophrenia.

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Actinidic archaea and Neanderthal hybrids

The further global warming related increase in archaeal growth leads to an atavistic archaeal endosymbiotic colony with its own metabolic phenotype.[2] The archaea are actinide dependent and use cholesterol as an energy substrate. The increased archaeal cholesterol catabolism produces endogenous digoxin synthesis which inhibits membrane sodium potassium ATPase activity leading to increase in intracellular calcium and reduction in intracellular magnesium. Increase in intracellular calcium produces calcified nanoarchaea which can exist for eternity. The nanoarchaea as in the case of ignococcus hospitalis can produce multicellular tissue forms resulting in an atavistic actinidic archaeal colony network within the cell. Reverse transcriptase activity of HERV origin can integrate archaeal genomes into the human genome as has been demonstrated with regard to trypanosomal genomes in Chagas disease. The increased expression of archaeal genes and integrated into human genes as a consequence of oxidative stress produced by global warming and ice age resulting in HDAC inhibition and demethylation. The endogenous archaeal genomes when expressed can lead to archaeal multiplication in the system. The basis of origin of Neanderthal hybrids is expression and multiplication of endogenous archaeal sequences in the genome. The Neanderthals would have evolved due to changes in the non coding area of the primate genome consequent to integration of archaeal genomes into primate genomes in the ice age. Global warming and cooling has been postulated to lead to increased propagation of extremophilic archaeal colonies. In fact global warming has been related to increased release of methane from multiplying archaeal colonies in the ocean bed. During periods of extreme climate change the extremophilic archaea undergoes expansion not only in the environment but also in the non coding area of the human genome. This by global warming related oxidative stress related HDAC inhibition of reverse transcriptase activation and integrase expression which reintegrase the multiplied archaeal genomes into the human genomes. Homo neanderthalis would have evolved as a consequence of archaeal expansion in the human genome in the ice age and the present increased tendency for expression of Neanderthal autistic hybrid phenotypes would result from the phenomena of archaeal expansion in the human genome produced by global warming. The archaeal expansion would result from civilizational and industrial activity of homo sapien population. This results in increased green house gas emissions and carbon dioxide production leading to environmental and symbiotic archaeal multiplication. Symbiotic archaeal multiplication results in increased archaeal integration into the non coding region of genome and expression of Neanderthal hybrids. The environmental archaeal multiplication results in methanogenesis which

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accelerates geometrically the global warming enhancing the process already set in motion. The increase in archaeal multiplication and global warming will melt the polar ice caps triggering massive floods and catastrophic extinctions. The multiplication of archaea in the ocean beds can trigger earth quakes in the ocean beds and massive tsunamis and floods land continental break down. The cycle of Yugas described in vedic mythology would be a consequence of climate change related catastrophic extinctions and subsequent regeneration of life. The actinidic archaea also being extremophilic can inhabit the intergalactic spaces contributing to intergalactic magnetic fields whose rotation which leads to evolution of star systems. Seeding of life on earth would have come out of asteroids transporting the actinidic archaea into the earth. This would have led to subsequent evolution of the multicellular organism, primates and later on Neanderthal groups. The homo neanderthalis have the APOBEC phenotype which makes them resistant to retroviral infections and the HERV load in the Neanderthal genome is less. The increased archaeal growth and cholesterol catabolism in Neanderthals, schizophrenic and autistic phenotypes lead to increased endogenous digoxin synthesis. Digoxin produces sodium potassium ATPase inhibition and magnesium deficiency intracellularly. Magnesium deficiency inhibits reverse transcriptase activity and HERV expression. Therefore retroviral expression, multiplication and integration into the genome is defective in Neanderthals, autism and schizophrenia. This leads to less dynamicity and fluidity of the Neanderthal genome leading to defective synaptic connectivity, large sized brains and smaller prefrontal cortex. The deficient synaptic connectivity occurs due to two factors. The cholesterol synthesis is less and the glial cholesterol secretion acts as a trophic factor for synaptogenesis. The HERV expression leads onto jumping genes which are responsible for the fluidity and dynamicity of the genome required for the development complex large neuronal networks. This leads to the development of large brain size as in autism and Neanderthals. The cerebral cortex and cerebellum are both large. The cerebellum contains 50 percent of the neurons in the brain. Therefore, in the absence of complex neuronal networks in the cerebral cortex especially prefrontal cortex the cerebellum become dominant and function as the master of the brain. The homo sapiens lack the APOBEC phenotype and retroviral resistance. The homo sapiens did not have archaeal overgrowth, cholesterol catabolism and digoxin synthesis. There was no digoxin induced reverse transcriptase inhibition. The HERV expression and its integration into the genome via reverse transcriptase activity led to increase in non-coding region of the genome. Retroviral epidemics in African primates contributed to the evolution of homo sapiens and their brain in Africa. The homo sapiens evolved consequent to expansion of HERV sequences in the

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genome consequent to persistent retroviral infections in African primates. The increase in HERV sequences in the primate genome led to increased fluidity and dynamic nature of the genome leading to development of a dominant prefrontal cortex and limbic lobe. The synaptic connectivity required for the formation of complex neuronal networks based on a dynamic genome modulated by HERV jumping genes were present in the homo sapien brain. This resulted in a trim and lean but more efficient and logical brain with dominant prefrontal cortex function. The cerebellar function was inhibited with predominant control over motor functions. The increase in electromagnetic wave pollution due to internet addiction and persistent usage leads to prefrontal cortical atrophy. This leads to reversion to cerebellar dominance in the homo sapien brain and wide spread increasing incidence of autism, schizophrenia, obsessive compulsive neurosis, sexual addiction syndrome, attention deficit hyperactivity disorders and dyslexias. The lack of APOBEC phenotype in the homo sapiens and the development of resistant retroviral strains would lead to extinction of the homo sapiens species. In addition the global warming can lead to oxidative stress, HDAC inhibition, demethylation and HERV expression leading to reconstitution of retroviruses in the system contributing to the acquired immunodeficiency syndrome. HERV expression in the human genome non coding area has been related to autism and schizophrenia. The development of resistant retroviral infections and the global warming related archaeal multiplication would lead to extermination of the homo sapiens species with its non coding area of genome contributed by HERV sequences. They will get replaced by Neanderthal hybrids with the non-coding region of the genome contributed by integrated archaeal sequence which multiply an increase in length owing to global warming. The multiplying symbiotic and environmental archaea will further contribute to increase global warming, further increased archaeal multiplication and dominance of Neanderthal hybrids in the world. The archaeal metabolism of cholesterol results in low cholesterol levels contributing to sex hormone deficiency, falling reproductive rates and extinction of Neanderthal hybrids generated.

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Actinidic archaeal metabolism and autism

The actinidic archaea have cholesterol ring oxidase activity generating pyruvate, side chain oxidase activity generating butyrate and propionate, aromatase activity generating the PAH ring and beta hydroxy steroid dehydrogenase activity generating the glycosidic digoxin and steroidal bile acids. The endogenous digoxin is archaeal in origin as the glycosidic sugars are not synthesized by the human cell. The glycoside digoxin can regulate neural function,

immune function and endocrine function. Endogenous digoxin produces sodium potassium ATPase inhibition resulting in increase in intracellular calcium and reduction in intracellular magnesium. Digoxin can modulate intracellular calcium/magnesium ratios increasing cellular calcium and depleting cellular magnesium. Magnesium deficiency inhibits the glycolytic enzymes, tricarboxylic TCA cycle enzymes and mitochondrial ATP synthase. The increase in intracellular calcium can modulate mitochondrial PT pore and its function. The magnesium deficiency can inhibit DNA and RNA polymerase function as well as reverse transcriptase activity. The HERV genes are not expressed and this affects the jumping genes contributing to the dynamicity and fluidity of the genome. HERV gene expression mediated genomic fluidity is required for the generation of complex neuronal networks and immune genes especially the HLA genes. This leads to defective development of the prefrontal cortex and its connections as well as immune mechanisms contributing to autoimmune diseases. Thus digoxin can inhibit genomic function. The digoxin induced intracellular magnesium deficiency results in ribosomal disintegration and defective protein synthesis. The PDH blockade results in defective generation of acetyl CoA resulting in reduced synthesis of cholesterol and fatty acids. Fatty acid oxidation and ketogenesis is also inhibited by magnesium deficiency related mitochondrial ATP synthase dysfunction. The actinidic archaeal multicellular network through digoxin secretion effectively blocks and shuts down all aspects of cell metabolism. The cellular energetic depends upon sodium potassium ATPase mediated membrane ATP synthesis. The cell requirement of ATP comes down as the membrane sodium pump is inhibited and all metabolic pathways are blocked. The cell goes into hibernation. The human cell, tissues and organ systems functions as a zombie. The cell is taken over by the atavistic multicellular actinidic archaeal colony. The actinidic archaeal metabolism survives. As fatty acid, glucose and amino acid metabolism is inhibited the glucose, fatty acids and amino acids accumulate in the cell and is used for actinidic archaeal metabolic pathways. This is exemplified by increase in actinide catalysed hexokinase activity, mitochondrial ATP synthase activity, membrane sodium potassium ATPase mediated ATP synthesis and cholesterol oxidase- side chain oxidase, ring oxidase, ring aromatase, beta hydroxy steroid dehydrogenase and cholesterol 7 alpha hydroxylase activity. The archaeal shikimic acid pathway synthesizes tyrosine and tryptophan derived neurotransmitters and neuroalkaloids. The shikimic acid pathway can synthesize dopamine, norepinephrine and serotonin as well as neuroalkaloids- morphine, nicotine and strychnine as has been demonstrated from this laboratory. The atavistic archaeal metabolism using cholesterol as energy substrates and actinides as catalyst takes over the cell. The human cell

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which goes into hibernation functions as a zombie with the multicellular actinidic archaeal colony taking over the cell and the body. Digoxin can produce cell death by calcium mediated mitochondrial PT pore dysfunction and cell proliferation by increased intracellular calcium activating ras oncogene. Digoxin by modulating sodium potassium ATPase can regulate cell membrane and nuclear membrane transport. Digoxin can modulate NFKB function by increase in intracellular calcium and produce immune activation. Digoxin by altering intracellular calcium/magnesium ratios can modulate G protein coupled and protein tyrosine kinase related neurotransmitter and endocrine receptors. Hyperdigoxinemia has been related to autism. Butyrate functions as a HDAC inhibitor regulating genomic function and also producing immunosuppression. Butyrate mediated altered genomic function can contribute to autism. Propionate can contribute to organic acidurias. Propionate can produce NMDA activation, increased monoamine transmission produce immunosuppression and modulate synaptic transmission. Pyruvate is also immunosuppressive, regulates insulin secretion and functions as an antioxidant. PAH can modulate AHR receptor function regulating cell proliferation and immunity. PAH and AHR receptor activation can affect brain function leading onto autism and ADHD. Cholesterol oxidase activity can generate H_2O_2 and redox stress modulating cell function. Redox stress is related to autism. The archaea can generate magnetite modulating magnetoperception and extrasensory perception important in autism. Thus the archaeal cholesterol catabolism can regulate genetic, immune, metabolic, endocrine and neural functions producing an atavistic phenotype. This atavistic archaeal colony functions as a new phenotype leading to autism. Climate change leads to global warming and increase in extremophilic archaeal growth. This leads onto autistic and schizophrenic metabolic patterns and increased incidence of civilizational diseases. The human body is taken over by the atavistic archaeal colonial phenotype leading to a zombie syndrome. There is a body change, mind change and cultural change akin to climate change. This leads onto neanderthalisation of the human species.

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Autism, schizophrenia and Neanderthal hybrid brains

The increase in archaeal growth and autistic metabolic patterns leads to autistic, cultural, neural and linguistic atavistic phenotypes. Low cholesterol values are characteristic of autistic brains. Low cholesterol levels can contribute to defective synaptogenesis as cholesterol is a trophic factor for synaptogenesis. This leads to reactive brain hypertrophy and neocortical dysfunction. The Neanderthals had large stout bodies and motor movements were an important part of their hunter gatherer life style. This also was associated with larger eyes

and a highly defined visual system important in their hunter gatherer life style. This would also have been associated with a prominent pineal gland with its retinal connections for regulation of diurnal rhythms and geomagnetic field modulation of body function. The Neanderthal brain was larger in size but the major part of the brain was associated with regulation of motor movements and vision crucial for their hunter gatherer life style. The importance of motor movements and the large body size of the Neanderthals contributed to a prominent motor cortex and parietal lobe. The visual cortex also occupied a major part of the cerebral cortex in view of the importance of vision for hunter gatherer lifestyle. The visual, gustatory, auditory and sensory cortex were dominant leading to a predominance of sensory perception regulating life or a civilization of senses. Sensual satisfaction becomes the dominant theme in life. The bile acids important in forming large social groups were binding to olfactory GPCR receptors producing limbic lobe stimulation was deficient. The limbic lobe areas of hippocampus, and prefrontal cortex were ill developed. The prefrontal cortex concerned with social interaction, executive decisions, judgment and social networking was small. Therefore the Neanderthals never formed large social clusters but only small matriarchal groups. The Neanderthals never formed large national groups as the prefrontal cortex concerned with logical higher level executive interactions was small. The language area of the brain was not developed and the linguistic substrates of the nation states was also lacking. This results in lack of nation states among Neanderthal population and states of war. The motor cortex, the cerebellar cortex controlling coordination and the visual cortex were dominant. The cerebellar cortex was more dominant as compared to the cerebral cortex. The Neanderthal brain had cerebellar dominance. The bulk of the cerebellar function was cognitory and motor regulation. The cerebellum is concerned with impulsive behavior, disinhibited states, obsessive compulsive states, paranoid states, childish naive behavior, ritualized behavior and stereotyped repetitive behavior. The cerebellum is concerned with hypometric and hypermetric states and produces dysmetria of thought. The cerebellar vermis is concerned with emotional behavior. The posterior cerebellum is predominantly cognitory. The anterior cerebellum is concerned with motor regulation. Right cerebellum is connected to the left cerebral hemisphere and left cerebellum is connected to the right cerebral hemisphere. Through the phenomena of diaschiasis cerebral cortical atrophy leads to cerebellar atrophy. Thus if the cerebellum is not developed in the fetus the cerebral cortex does not develop. The dorsolateral prefrontal cortex development depends upon cerebellar development. In the context of defective cerebellar development the prefrontal cortex fails to develop. The cerebellum is in fact more important than the cerebral cortex and contains 50 percent of the

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neurons of the brain. The cerebral cortical and cerebellar function can be compared as conscious versus unconscious, dream versus wake and logical versus intuitive. It can also be compared as patriarchal cerebral cortex versus matriarchal cerebellar cortex as well as commonsensical cerebral cortex versus magical cerebellar cortex. The cerebral cortex can be considered as the HERV modulated brain and the cerebellar cortex can be considered as archaeal modulated brain. As said before, the atavistic archaeal colony network secretes digoxin and neuronal cell goes into metabolic and functional hibernation. The atavistic actinidic archaeal colony network functions as an information sensing and processing network which also has a capacity of social intelligence. The archaeal colony network has got magnetite capable of magnetoperception and quantal perception. Actinidic archaeal colony mediated quantal perception becomes the dominant form of perception as the neuronal cells goes into metabolic and functional hibernation induced by digoxin. The conscious perception modulated by the thalamocorticothalamic pathway becomes dysfunctional and is replaced by magnetoperception/quantal perception mediated by digoxin induced pumped phonon system involving in dipolar magnetite and porphyrins. The porphyrin and magnetite induced quantal perception can contribute to wave forms of the atavistic archaeal colony network generating macromolecular quantal states. The porphyrins and magnetite are dipolar molecules and can lead onto macroscopic quantal states. Extrasensory perceptual modes are dominant in autism and schizophrenia. The magnetite and archaeal porphyrins are dipolar and in the presence of digoxin induced sodium potassium ATPase inhibition can create pumped phonon states required for quantal perception. The porphyrins which are synthesized more in autism and schizophrenia contribute to extrasensory perception. Extrasensory quantal perception is dominant in autism and schizophrenia. In the quantal state everything exists as unlimited probabilities and it is the conscious observer that brings one of the probabilities into one graviton criteria and consciousness. The multiple probabilities in the quantal states according to the many world interpretation can exist in multiple universes or multiverses at the same time. Thus the quantal brain modulated by the actinidic archaeal colony is eternal and can exist for ever. This forms the basis of the biocentric theory of the universe producing a unified explanation for all phenomena. The world exists because of consciousness. The universe is basically biological. The actinidic nano archaea are extremophilic and can exists in the intergalactic space contributing to the spiral intergalactic magnetic fields whose rotation leads to the evolution of star systems and planets. Life itself would have an actinidic origin formed on actinidic substrates by abiogenesis. The quantal brain function and quantal

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phenomena like quantal crystal diffraction gradient can lead onto the origin of the material world.

The cerebellum is concerned with extrasensory perception and trance-like hypnotic states. The cerebellum is involved in out of the body experience and magical states. Spiritual experiences and magical experiences as well as dream like states are also mediated via the cerebellum. The cerebellum is dominant for intuition. Intuitive phenomenon is the basis of creativity and can be called as sixth sense. The cerebellum is involved in telepathy, telekinesis and poltergeist phenomena. Quantal perception is also dominant in the cerebellum as 50 percent of the neurons in the brain are in the cerebellum and the atavistic actinidic archaeal colony network is basically lodged in cerebellum. Quantal perception can lead to communication with the animals and plants. Magnetoperception and quantal perception would have generated a feeling of oneness of humans, nature and animals contributing to a spiritual experience. Magnetoperception and porphyrins are involved in sensing of geomagnetic fields. This leads onto a feeling of oneness with nature and group. This leads onto group consciousness, group identity and group motherhood characteristic of Neanderthal clusters. There is no individual identity which is replaced with group identity. This would have contributed to a magical civilization of dreams. This would have generated a pagan culture. The prominent pineal gland would have led to dominant geomagnetic and solar perception leading to a greater level of spirituality. Thus the dominant extrasensory quantal perceptive modes in the Neanderthal brain would have led to a world of dreams in quantal foam where the material world merged with the world of quantal waves. This would have led to a sense of oneness with the world or a feeling of God which can be aptly described as the world of Maya. This can lead onto increase sense of spirituality in the Neanderthal groups. Since the prefrontal and temporal cognitive cortex was small and dysfunctional extrasensory perception dominated. The Neanderthal brain had an atavistic archaeal colony network. The archaeal magnetite induced magnetoperception and group consciousness. The atavistic archaeal colony network has magnetite and actinide mediated magnetoperception in autism. They also had non local communication and telepathic abilities. Quantal perception was more dominant compared to conscious perception. This leads onto dominance of unconscious over conscious function. This contributes to a dreamy shamanic trance-like states leading to spiritual experience. Magnetoperception and quantal perception can contribute to perceiving nature and environmental consciousness. Neocortical function is defective due to defective synaptogenesis. Brain function is more intuitive than logical. There is more of emotional

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behavior than logical behaviour. There is more of dreamy trance-like spiritual states than wakeful states. The population lives in dreamy, hallucinatory state. Extrasensory perception contributes to spiritual experience in autism and Neanderthals. The conversion of ketone bodies derived from ketogenic diet to the neurotransmitter GABA and hydroxybutyric acid would have contributed to stimulation of inhibitory transmission in the brain and docile, spiritual behavior of Neanderthal societies. Quantal perception and magnetoperception leads to the phenomena of social networking with equality among all people participating in the network and without a leader. Such social networking behaviour has led to rapid social revolutions in recent times as in Egypt and northern Africa. Social networking groups linked by quantal perceptive modes become the basis of society. The family, the caste and religious hierarchies dissolves giving way to more gender equal and social equal networking groups based on quantal perception or magnetoperception.

Neocortical dysfunction contributes to defective vocalization in Neanderthals. They also had a highly placed larynx contributing to disordered symmetry between swallowing and breathing leading to evolution of linguistics characteristic of Dravidian language lacking quantal vowels. Language development and communication skills decline with more of gestural and extrasensory communication. Vocal language spoken and written becomes less and less widely used. The use of gestural and communicative music and dance becomes dominant in replacement to written and spoken speech. The cerebellum is important with regard to speech. Word selection, grammar, prosody and gestures depend on the cerebellum. Cerebellar dominance leads to defective language usage, autism and dyslexias. Symbolic gestural communicative forms and trances have been described in art forms of Kerala exemplified by Kathakali and Theyyams.[10] Speech defects are hallmark of autism. This leads onto widespread generation of autistic brain phenotypes in the community. The cerebellum though was large was predominantly cognitory. This leads to decreased efficiency of motor function of the cerebellum leading onto a functional cerebellar syndrome. The Neanderthal movements were clumsy owing to cerebellar dysfunction as happens in autism. The cerebellar speech staccato, explosive, incoordinate and slurred. This can lead onto a musical quality for speech. The frontal cortical dysfunction leads to ecolalia and repetitive. This would have lead to the origin of music. The Neanderthal language would have been predominantly musical. The appendicular incoordination leads to appendicular ataxia. This leads onto the creation of vague abstract forms of drawing. This would have been the genesis of the abstract art. The written language of the Neanderthals as in the case of Dravidian

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Harappans was predominantly as pictorial scripts or hieroglyphics. Abstract art originated in the basque community with leading figures like Picasso and Dali generated from them. The cerebellar appendicular ataxia also leads to ataxic gait leading to generation of dance forms. Symbolic dance forms of Theyyam and Kathakali in Kerala are representative of this. The frontal cortical dysfunction also leads to ecopraxia or repetition of motor acts. Repetitive cerebellar and frontal cortical dysfunction related ataxic movements would have been the origin of dance forms. Dominant cerebellar function contributes to the development of religious rituals, music and dance. The archetypes of the unconscious common to all civilizations also have their substratum in the cerebellum. Neanderthal music, art and dance were a form of spiritual worship in communion with nature as a part of environmental consciousness. Repetitive and ritualized motor acts as a part of spiritual worship would have been generated by prefrontal cortex and cerebellar dysfunction. The increased exposure to the low level electromagnetic fields due to increase in internet usage in the current population also leads to atrophy of the prefrontal cortex leading to dominance of parietal, motor and visual cortex. This creates a Neanderthal like brain in people with internet addiction and over usage which is widespread in the modern world. The shrinkage of the prefrontal cortex and its dopaminergic pathways linking to the basal ganglia is the basis of drug, sexual and sugar addiction. Addictive behaviours were common in the Neanderthal population with usage of drugs like ephedra for creating shamanic states. Similar addictive behavior is common in population overexposed to low level electromagnetic fields generated by internet usage and resultant prefrontal cortex shrinkage. The cerebellar dominance leads to increased incidence of schizophrenia, autism, dyslexia, ADHD, obsessive compulsive disorder and sexual addiction syndromes. The cerebellar size is related to estrogen and testosterone levels and cerebellar dysfunction can contribute to sexual deviant obsessive traits. Thus cerebellar dominance leads to dysmetria of motion and dysmetria of thought leading to dominant quantal perceptive mode. Cerebellar dominant individuals are creative, autistic savants and geniuses but are clumsy with routine motor acts due to dysmetria of motion.

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Increasing incidence of autism, actinidic archaea and global warming

The rising incidence of autism can be related to global warming related archaeal growth in the brain and low EMF exposure due to increased internet usage. The increase in homo sapien growth and increased industrial pollution and global warming leads to archaeal overgrowth and neanderthalisation of the brain leading to return of the magical world. This also would result from increased electromagnetic pollution and internet usage leading onto

prefrontal cortex atrophy and autistic brain dominance. There would be a return to the dreamy world of the Neanderthals. The increase in archaeal growth in the oceans would also increase methanogenesis and global warming as also contribute to quakes in the ocean bed, leading to tsunamis. The global warming would lead to melting of the ice caps of the earth and flooding leading to eventual extinction of the world population. In addition the low cholesterol levels and low sex hormone levels would lead to an asexual gender equal world with aberrant sexual behavior and decreased reproductive rates contributing to population extinction. This would be the basis of the theories of Kali yuga, and end of the world in mythologies. The quantal magical world of the Neanderthals would persist. Vitamin D deficiency can produce abnormalities in brain synaptogenesis and growth. Macrocephaly and large sized brains are seen in autism and Neanderthals.[11] The Neanderthal have been postulated to have the APOBEC3G phenotype producing retroviral resistance as in Dravidian related Australian aboriginals.[9] The Neanderthal hybrids are resistant to retroviral infections and have less of HERV load in the genome. The homo sapiens lack the apobec phenotype and are more susceptible to retroviral infections producing increased integration of HERV into the genome. HERV integration into the genome produces jumping genes and a dynamic genome. This dynamic genome is important in generation of complex synaptic networks and HLA phenotypes. This leads to the smaller size brain with increase in prefrontal cortex and autoimmunity in the homo sapiens unlike the Eurasian Neanderthal phenotype. The homo sapien brain with its prefrontal cortex dominance and smaller size is a consequence of HERV expression in contrast to the large sized Neanderthal brain with smaller prefrontal cortex which is induced by endosymbiotic archaeal over growth. The increased cholesterol levels and bile acid levels in homo sapiens resulted in bile acid binding to olfactory GPCR receptors and limbic lobe stimulation. This resulted in prefrontal cortex and temporal cortex hypertrophy. The homo sapien brain was dominated by the large prefrontal cortex which was required for executive, logical, reasoning and questioning ability. This led onto the world of logic and reason. The homo sapien brain was dominated by a web of synaptic connections produced by HERV expression mediated dynamic genome. The prefrontal cortical dominance led to the evolution of large social groups and nation states. The evolution of language areas in the frontoparietal cortex developed into linguistic substrates of nation states. This resulted in lack of global consciousness and genesis of the idea of war between nations and persecution of linguistic groups or nations. This was a logical brain as compared to the intuitive and spiritual brain of the Neanderthals. The loss of extrasensory quantal perceptive modes of the homo sapien brain led to decreased communion with plants, animals

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and nature leading to decreased environmental consciousness in the Western homo sapien civilization. Homo sapiens alone were considered to have the life force of soul and the plant and animal kingdom was outside the pale of spirituality. The loss of environmental consciousness and spirituality resulted in environmental destruction and global warming. The communion with nature was lost and life became mechanical, logical and commonsensical. The magical dreamy trance-like world of the Neanderthal brain was lost. This arose with the dominance of the Western Christian civilization. The dreamy trance-like world of the hermetic faiths- Kabbala, Shamanism, Paganism, Hinduism, Taoism, Shitoism and Gnostic Christianity was lost with loss of the Neanderthal structure of the brain. The archaeal overgrowth related changes in the brain and development of Neanderthal hybrids contribute to schizophrenia and autism.

Neanderthal hybrids and endocrine function

Low cholesterol leads to low testosterone and estrogen levels and defective sex hormone modulation of brain function and growth. This would lead to defective stress response and sexual reproductive rates leading to eventual extinction of the Neanderthal population. Low testosterone levels and estrogen levels would lead to less defined asexual phenotypes, lack of male dominance, gender equality and matriarchal societies with group motherhood. This is the basis of the matriarchal cultural phenotype with lack of male dominance. The low sex hormone levels would lead to low maturity rates seen in fossil specimens of characteristic of Neanderthals. Bile acids bind to the olfactory receptors and lead to limbic lobe stimulation and family bonding as well as bonding between individual mother and child. The group motherhood characteristic of matriarchy would be a reflection of low bile acid levels. The low bile acid levels leads to less family bonding. This contributes to autistic behaviour. There is no family bonding which gets replaced with common motherhood. This fits in with the grandmother hypothesis with dominant females regulating the society. The society becomes more gender equal with its astereotyped asexual behavioural patterns common in autism. These phenomena can lead to globalization, loss of national identity, loss of sexual identity and universalisation of behavior and thought.[12-15] The homo sapiens had higher cholesterol levels leading to higher levels of sex hormone synthesis-testosterone and estrogen. This lead to the development of a male dominant patriarchal society in homo sapiens. The females were suppressed and were not allowed any rights and subjected to the rigid social codes enforced by the male dominant patriarchy. The sexual behavior was also more towards conservative forms with aberrations being considered as

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illegal. The homo sapien society gender unequal society. The increased cholesterol and bile acid levels led to increase in family bonding and family as a basic structure of society. The child was identified with the father and his family. The concept of nuclear family got strengthened in the homo sapien group. The group community feeling and group motherhood of the matriarchal Neanderthal society was lost. Neanderthal societies with its group motherhood, group consciousness, gender equality and togetherness were akin to a primitive form of communist society. This postulate has been put forward by Engels in his thesis 'The Mothers'. The Neanderthal society because of its group consciousness was more of a primitive communist or socialistic society and paganistic. The lack of sex hormone modulation of brain function in Neanderthal hybrids can contribute to schizophrenia and autism.

Neanderthal hybrids, actinidic archaea and civilizational disease- cancer, metabolic syndrome X, autoimmune disease and neurodegeneration

The human cell and tissues go into hibernation mediated by the actinidic archaeal colony secreted digoxin. The DNA polymerase, RNA polymerase, ribosomal function, fatty acid oxidation, glycolysis, TCA cycle, mitochondrial oxidative phosphorylation and cholesterol/fatty acid synthesis gets shut down owing to archaeal digoxin induced magnesium deficiency. The human cell and tissues go into hibernation with the energy for survival produced by membrane sodium potassium ATPase mediated ATP synthesis. The actinidic archaea forms a multicellular colony/network which takes over the human cell and tissues which are reduced to a zombie in hibernation. This produces a human zombie syndrome. The glucose, fatty acids and amino acids accumulate in the cell as the metabolic and catabolic pathways are blocked. The actinidic archaeal metabolic using actinide catalysis takes over. Actinide dependent hexokinase activity and mitochondrial ATP synthase activity as well as cholesterol oxidase activity has been described in systemic disorders. The hyperglycemia generated due to actinidic archaea secreted digoxin induced block in glucose catabolism leads to diabetes mellitus. Endogenous digoxin leads to increase in vascular smooth muscle calcium, vasospasm and vascular thromobosis. The actinidic archaeal atavistic network and colony grows into neoplasms and cancer. The actinidic archaeal colony generated digoxin shuts down the metabolic machinery of the neuronal cell and over a period of time lead to cell death contributing to neurodegenerative disorders like parkinson's disease, alzhemier's disease and motor neuron disease. The actinidic archaeal colony secreted digoxin shuts down the neuronal metabolic machinery and synaptic networks resulting in dominance of quantal

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and magnetoperception. Quantal and magnetoperception is mediated by digoxin induced dipolar magnetite and archaeal porphyrins pumped phonon system. As the cerebellum contains 50 percent of the neurons in the brain the cerebellar magnetoperception and quantal perception dominates. The cerebellum becomes dominant. Cerebellar dominance can also occur due to electromagnetic pollution and wider internet usage. Low level of EMF is perceived by magnetite in the brain. This leads to prefrontal cortical atrophy and cerebellar dominance. Cerebellar dominance has been related to autism, schizophrenia, OCD, ADHD, sexual deviant traits and naïve childhood type disinhibited, impulsive behavior. The atavistic archaeal colony network takes over the body and tissues. This leads to immune activation, generation of autoantigens as the human body tries to fight the invading archaeal atavistic colony. This leads to autoimmune disease like lupus, multiple sclerosis and rheumatoid arthritis. The archaeal atavistic colony generated digoxin blocks reverse transcriptase activity and retroviral multiplication and integration. This leads to resistance to retroviral infection. The defective HERV expression leads to defective jumping genes and HLA genes contributing to autoimmune disease. The MHC genes are of Neanderthal origin and autoimmunity is related to Neanderthal MHC alleles. Autoimmunity and antibrain antibodies are characteristic of autism. Autism and schizophrenia is associated with systemic disorders. The autistic metabolonomic phenotype is also seen in cancer, autoimmune disease, degeneration, metabolic syndrome X and schizophrenia. This is due to a vagal neuropathy due to defective acetyl choline synthesis consequent to lack of substrate acetyl CoA. This also leads to sympathetic overactivity. Vagal neuropathy is associated with immune activation and autoimmune disease. Vagal neuropathy can contribute to insulin resistance and increased sympathetic activity to neoplastic transformation. The cholesterol synthetic defect leads to defective synaptogenesis seen in autism and schizophrenia. Cholesterol derived bile acid and vitamin D deficiency can contribute to schizophrenia and autism. Cholesterol is involved in contact inhibition and when the membranes are defective can lead to cell proliferation. Low cholesterol levels lead to low vitamin D and bile acid levels both of which bind to VDR producing immunosuppression. This can contribute to autoimmunity. Vitamin D deficiency can contribute to insulin resistance and metabolic syndrome phenotype in Neanderthals. Bile acids function as hormones regulating lipid and glucose metabolism and its deficiency can also contribute to syndrome X and insulin resistance. Thus the generation of atavistic archaeal colony/network leads to a new metabolic, immune and neuronal phenotype taking over the human body contributing to civilizational diseases like cancer, degenerations, autoimmune disease and metabolic syndrome X which are showing an

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epidemic increase in incidence like autism. The human body goes to hibernation and death as a zombie taken over by the actinidic archaeal colony network which rules over the human brain, organ systems, tissues and cell. The age of Neanderthals blooms again with its catastrophic consequences.

Conclusion

The results suggest neanderthalisation of the humans due to global warming and archaeal growth. The Neanderthalisation of the human species is the basis of the global autistic, schizophrenic and civilizational disease epidemic- epidemic Neanderthal hybrid zombie syndrome. The matrilineal societies are fossilized Neanderthal remnants and neoneanderthal hybrids contribute to civilizational diseases. There is a mind change, linguistic change, cultural change, social change and spiritual change akin to climate change owing to increased archaeal growth as a consequence of global warming. The Neanderthal species evolved during periods of extreme climate change of the Ice age which led to increased extremophilic endosymbiotic archaeal growth. A similar extreme climate phenomenon of global warming is a feature of our current existence. This leads to increased extremophilic endosymbiotic archaeal growth and neanderthalisation of the population. Low cholesterol levels and low sex hormone levels would lead to asexual phenotypes and eventual population extinction. A new human species homo archaeax neanderthalis with its new anthropometric, metabolic, cultural, linguistic, neural, psychological and genetic atavistic phenotype is evolving.[16] The Neanderthalisation of the human species is the basis of the global autistic, schizophrenic and civilizational disease epidemic- epidemic Neanderthal hybrid zombie syndrome. The matrilineal societies are fossilized Neanderthal remnants and neoneanderthal hybrids contribute to civilizational diseases. The Neanderthal hybrids will eventually replace the homo sapien species.

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CHAPTER 12

THE AUTISTIC NEO-NEANDERTHAL TRIBE AND THE HARAPPAN ASURIC NEANDERTHAL DRAVIDIAN CIVILISATION- CLIMATE CHANGE, ENDOSYMBIOTIC ARCHAEAL DIGOXIN AND MIND CHANGE WITH CEREBELLAR DOMINANCE - NEANDERTHAL HYBRIDS: CLIMATE CHANGE MEDIATED ACTINIDIC ARCHAEAL ENDOSYMBIOSIS GENERATES NEANDERTHAL HYBRIDS AND MIND-BODY PHENOTYPIC CHANGE

The increased prevalence of autism in the Dravidian Nair community has been documented. Autistic children and the Nair population tend to have Neanderthal anthropometric features. There is increased incidence of EMF, CCP, MNG and mucoid angiopathy in the population inhabiting the land masses arising out of the Lemurian supercontinent in the Indian ocean. The South Indian land mass was a part of the Lemurian supercontinent in the Indian and Southern ocean which was destroyed by giant Tsunamis and the population inhabiting the supercontinent are represented by the Dravidian population of South India. The population that migrated from the Lemurian land mass travelled over to the Eurasian land mass creating the urban civilizations of Harappa-Mohenjadaro, Sumeria, Etruscia, basque, celts and Egypt. All these ancient civilizations were co-terminus and existed at the same point of time at least 10,000 years BC. The Harappa-Mohenjadaro civilization is considered to be Dravidian and the Harappan script has been decoded and found to be Akkadian-Dravidian. All the Harappa-Mohenjadaro, Sumeria, Etruscia, basque, celts and Egypt civilizations spoke the Akkadian-Dravidian language. As has been demonstrated the Dravidian Nair community has Neanderthal anthropometric features and Neanderthal metabolonomics. All the above mentioned civilizations have a possible Neanderthal origin. The Dravidian community is postulated to have evolved in the Lemurian continent.

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The homo neanderthalis would have evolved in the Lemurian supercontinent in the Indian and Southern ocean during periods of extremes of weather. During the ice age and periods of global warming, there is increasing growth of the extremophilic archaea in the human body and oceanic ecosystems. The increasing growth of archaea in the ocean bed leads to release of methane which triggers catastrophic earthquakes in the oceans. This precipitates Tsunamis in the Indian ocean and one of them would have destroyed the Lemurian land mass triggering a mass exodus. This would be the basis of the flood myths in

history. The increasing growth of cholesterol catabolising archaea in the primates leads to evolution of homo neanderthalis. The archaea binds to the toll receptor inducing HIF alpha suppressing mitochondrial function and increasing glycolysis. The archaeal catabolism of cholesterol produces cholesterol depletion and bile acid deficiency. Both these factors induce the metabolic syndrome and insulin resistance leading to trunkal obesity and the Neanderthal phenotype. The low cholesterol levels leads to vitamin D deficiency and rickets generating the Neanderthal phenotype with the characteristic anthropometric features. The cholesterol catabolism and ring oxidation leads to generation of pyruvate which is transferred to the GABA shunt pathway. This generates glycine and succinyl CoA synthesizing porphyrins which are dipolar molecules. The cholesterol catabolism generates digoxin which inhibits membrane sodium potassium ATPase and produces a Bose-Einstein condensate via the dipolar porphyrins inducing quantal perception. The digoxin induced membrane sodium potassium ATPase inhibition depletes the cell of magnesium inhibiting reverse transcriptase activity and HERV generation. The HERV produces genomic flexibility and lack of it leads to prefrontal cortex atrophy. The porphyrin induced quantal perception of low level EMF also leading to prefrontal cortex atrophy. There is cerebellar dominance in the Neanderthal phenotype leading onto increased intuitiveness, quantal perception, spirituality, community spirit, compassion, equality and feeling of oneness with the environment. Thus the Neanderthal phenotype would have evolved in the Lemurian continent with its attached antartic land mass in the ice age. The Neanderthals would evolve due to similar mechanism during period of global warming. The evolution near the antartic part of the Lemuria and the decreasing availability of sunlight would have contributed to the light skin colour of Neanderthals. The Neanderthals following destruction of the Lemurian supercontinent would have migrated to Harappa-Mohenjadaro, Sumeria, Etruscia, basque, celts and Egypt creating a global Dravidian civilization. This civilization had a language, was spiritual, had gender equality and social equality. It was also a creative urban civilization in Harappa-Mohenjadaro, Sumeria, Etruscia, basque, celts and Egypt.

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The Harappa-Mohenjadaro, Sumeria, Etruscia, basque, celts and Egypt are essentially Dravidian and neanderthalic. The Harappan civilization was thus similarly neanderthalic and Dravidian. The initial inhabitants of Harappa were the Asuras and they are the Dravidian Neanderthals. The Rigveda had a Harappan origin. The principal God the Rigveda is Varuna-the God of the Oceans. Such a concept would have evolved only in a land mass surrounded by oceans and in ocean travelers suggesting a neanderthalic Dravidian origin of Rigveda. The

Indus script has been deciphered and is supposed to be logographic and of Akkadian-Dravidian origin. The Harappan civilization had thus a language, Rigvedic religion, laws and was urbanized. The Harappan civilization originated in and was made up of Neanderthal Dravidians migrating from Lemuria destroyed by Tsunamis. It was a sister civilization to the other neanderthalic Dravidian civilizations of Sumeria, Etruscia, basque, celts and Egypt. It was part of the global Dravidian civilization.

The Rig veda includes concepts of battle between asuric neanderthalic Dravidians of Harappa and the invading homo sapien Devas. The homo sapien Devas had a different brain structure with predominant prefrontal lobe and smaller cerebellum. They evolved out of Africa and HERV generation led to a dynamic large prefrontal cortex. They were different phenotypically from the asuric Dravidian Neanderthals. The asuric Dravidian Neanderthals were cultured with language, religion, laws and social organization. The asuric Dravidian Neanderthals were matrilineal. They were more gender-equal with alternate modes of sexual behaviour. The asuric Dravidian Neanderthals were social equal with a primitive type of communism. The homo sapien Devas did not have a language, laws or religion and were relatively uncivilized. They were more patriarchial and male dominant. The homo sapien Deva invasion of the neanderthalic Harappan society led to the generation of Neanderthal hybrids and the hybrids got their religion and language as well as civilized behaviour from the neanderthalic Harappan Dravidians. The basis of human creativity can be related to this interaction between the Dravidian asuric Neanderthals and the homo sapien Devas. The Rigveda is basically of Dravidian neanderthalic origin. The initial global language was Akkadian-Dravidian. The Sanskrit language is a modification of the Akkadian-Dravidian script. The homo sapien Deva invasion led to the collapse of the global Dravidian civilization of Harappa-Mohenjadaro, Sumeria, Etruscia, basque, celts and Egypt. The great religions of the world the Judaeo-Christianity, Muslim and Hindu are basically Dravidian Neanderthal and Semitic. The Dravidian Neanderthal community migrating out of Lemuria was the basis of the Semitic community and the Semitic religions of the world. The neanderthalic brain was attuned to quantal perception and spirituality.

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In the present situation of global warming there is an increased growth of archaea in the human system and neanderthalisation of humans. The Neanderthals have returned and the human brain is becoming neanderthalic in behavior and function. This is responsible for the rising tide of autism, schizophrenia and metabolic syndrome x in the world.

Actinidic archaea has been related to global warming and human diseases especially autoimmune disease, neurodegeneration, neuropsychiatric disorder, neoplasm and metabolic syndrome x. The growth of endosymbiotic actinidic archaea in relation to climate change and global warming leads to neanderthalisation of the human mind-body system. Neanderthal anthropometry and metabolonomics has been described in autoimmune disease, neurodegeneration, neuropsychiatric disorder, neoplasm and metabolic syndrome x especially the Warburg phenotype and hyperdigoxinemia. Digoxin produced by archaeal cholesterol catabolism produces Neanderthalisation. Prefrontal cortical atrophy and cerebellar hyperplasia has been related to autoimmune disease, neurodegeneration, neuropsychiatric disorder, neoplasm and metabolic syndrome x in this communication. This leads on to dysautonomia with sympathetic hyperactivity and parasympathetic neuropathy in these disorders. Actinidic archaeal related cerebellar dominance leads to changes in brain function. The data is described in this paper.[1-16]

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Materials and Methods

Fifteen cases, each of autoimmune disease, neurodegeneration, neuropsychiatric disorder, neoplasm, metabolic syndrome x and internet addicts were selected for the study. Each case had an age and sex matched control. Neanderthal anthropometric and phenotypic measurements which included protruding supra-orbital ridges, dolichocephalic skull, small mandible, prominent mid face and nose, short upper and lower limbs, prominent trunk, low index finger-ring finger ratio and fair complexion were evaluated in the cases study. Autonomic function tests were done to assess the sympathetic and parasympathetic system in each case. CT scan of the head was done to have a volumetric assessment of the prefrontal cortex and cerebellum. Blood cytochrome F420 activity was assessed by spectrophotometric measurement.

Results

All the case groups studied had higher percentage of Neanderthal anthropometric and phenotypic measurements. There was low index finger-ring finger ratio suggestive of high testosterone levels in all the patient population studied. In all the case groups studied, there also was prefrontal cortex atrophy and cerebellar hyperplasia. Similarly in the all the case groups studied, there was dysautonomia with sympathetic overactivity and parasympathetic neuropathy. Cytochrome F420 was detected in the entire case group studied showing endosymbiotic archaeal overgrowth.

Table 1. Neanderthal phenotype and systemic disease

Disease	Cyt F420	Neanderthal phenotype	Low index finger-ring finger ratio
Schizophrenia	69%	75%	65%
Autism	80%	75%	72%
Alzheimer's disease	89%	65%	75%
Parkinson's disease	70%	71%	80%
Non-Hodgkin's lymphoma	72%	60%	69%
Multiple myeloma	70%	68%	74%
Diabetes mellitus with stroke and CAD	65%	72%	72%
SLE/Lupus	75%	85%	74%
Multiple sclerosis	80%	75%	75%
Internet users	65%	72%	69%

Table 2. Neanderthal phenotype and brain dysfunction

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Disease	Dysautonomia	Prefrontal cortex atrophy	Cerebellar hypertrophy
Schizophrenia	65%	60%	70%
Autism	72%	69%	72%
Alzheimer's disease	60%	72%	60%
Parkinson's disease	62%	71%	68%
Non-Hodgkin's lymphoma	79%	65%	75%
Multiple myeloma	69%	72%	80%
Diabetes mellitus with stroke and CAD	64%	84%	69%
SLE/Lupus	75%	73%	72%
Multiple sclerosis	69%	74%	76%
Internet users	74%	84%	82%

Discussion

Neanderthal metabolonomics contribute to the pathogenesis of these disorders. There were Neanderthal phenotypic features in all the case groups studied as well as low index finger-ring finger ratios suggestive of increased testosterone levels. Neanderthalisation of the mind-body system occurs due to increased growth of actinidic archaea as a consequence of global warming. Neanderthalisation of the mind leads to cerebellar dominance and prefrontal

cortex atrophy. This leads to dysautonomia with parasympathetic neuropathy and sympathetic hyperactivity.

Global warming and the ice age produces increased growth of extremophiles. This leads to increased growth of actinidic archaeal endosymbiosis in humans. There is archaeal proliferation in the gut which enters the cerebellum and brain stem by reverse axonal transport via the vagus. The cerebellum and brain stem can be considered as an archaeal colony. The archaea are cholesterol catabolising and use cholesterol as a carbon and energy source. The actinidic archaea activates the toll receptor HIF alpha inducing the Warburg phenotype resulting in increased glycolysis with generation of glycine as well as pyruvate dehydrogenase suppression. The accumulated pyruvate enters the GABA shunt generating of succinyl CoA and glycine. The archaeal catabolism of cholesterol produces ring oxidation and generation of pyruvate which also enters the GABA shunt scheme producing glycine and succinyl CoA. This leads to increased synthesis of porphyrins. In the setting of digoxin induced sodium potassium ATPase inhibition the dipolar porphyrins produce a pumped phonon system resulting in the frohlich model Bose-Einstein condensate and quantal perception of low level EMF. Low level EMF pollution is common with internet usage. Perception of low level of EMF leads to neanderthalisation of the brain with prefrontal cortex atrophy and cerebellar hyperplasia. The archaea which reaches the cerebellum from the gut via the vagus nerve proliferates and makes the cerebellum dominant with resultant suppression and atrophy of the prefrontal cortex. This leads to widespread autistic and schizophrenic traits in population. The actinidic archaea induces the Warburg phenotype with increased glycolysis, PDH inhibition and mitochondrial suppression. This produces neanderthalisation of the mind-body system. The actinidic archaea secretes RNA viroids which block HERV expression by RNA interference. The HERV suppression contributes to the inhibition of prefrontal cortex development in Neanderthals and cerebellar dominance. Archaeal digoxin produces sodium potassium ATPase inhibition and magnesium depletion causing reverse transcriptase inhibition and decreased generation of HERV. The HERV contributes to the dynamicity of the genome and are required for the development of the prefrontal cortex. The HERV suppression contributes to retroviral resistance in Neanderthals. The actinidic archaea catabolises cholesterol leading to cholesterol depleted state. Cholesterol depletion also leads to poor synaptic connectivity and decreased development of prefrontal cortex. This is not genetic change but a form of symbiotic change with endosymbiotic actinidic archaeal growth in the body and brain.

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Internet use and low level EMF pollution is common in this century. This results in increased low level EMF perception by the brain by the digoxin-porphyrin mediated pumped phonon system created Bose-Einstein condensates contributing to prefrontal cortex atrophy and cerebellar dominance. Cerebellar dominance leads to schizophrenia and autism. There is an epidemic of autism and schizophrenia in the present day community. The porphyrin mediated extrasensory perception can contribute to communication among Neanderthals. Neanderthals did not have a language and used extrasensory perception as a form of group communication. Because of dominant extrasensory quantal perception, the Neanderthals did not have individual identity but only group identity. Cerebellar dominance results in creativity consequent to quantal perception and group perception. The Neanderthalic traits contribute to innovation and creativity. Cerebellar dominance results in development of a symbolic language. The Neanderthals used dance and music as a form of communication. Painting as a form of communication was also common in Neanderthals. Neanderthal behaviour was robotic. Robotic behaviour is characteristic of cerebellar dominance. Robotic, symbolic and ritualistic behaviour is common with cerebellar dominance and is seen in autistic traits. The cerebellar dominance in Neanderthals leads to intuitive intelligence and a hypnotic quality to communication. The increased extrasensory quantal perception leads to more communion with nature and a form of eco-spirituality. The increasing use of dance and music as a form of communication and eco-spirituality is common in the modern century along with increased incidence of autism. The cholesterol depletion leads to bile acid deficiency and generation of small social groups in Neanderthals. Bile acid binds to olfactory receptors and contributes to group identity. This can also contributes to the generation of autistic features in Neanderthals.

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The Neanderthal population was predominantly autistic and schizophrenic. The modern population is a hybrid of Homo sapiens and Homo neanderthalis. This contributes to 10 to 20 percent dominant hybrids who tend to have schizophrenic and autistic qualities and contributes to creativity of civilisation. The Neanderthals tend to be innovative and chaotic. They tend to be creative in art, literature, dance, spirituality and science. Eighty per cent of less dominant hybrids are stable and contribute to a stabilizing influence leading to growth of civilisation. The homo sapiens were stable and non-creative over a long period of their existence. There was a burst of creativity with generation of music, dance, painting, ornaments, the creation of concept of God and compassionate group behaviour around 10,000 years ago in the homo sapiens community. This correlated with the generation of Neanderthal

hybrids when the Euroasian Neanderthal male mated with homo sapiens African females. The extrasensory/quantal perception due to dipolar porphyrins and digoxin induced sodium potassium ATPase inhibition and the generated pumped phonon system mediated quantal perception leads to the globalisation phenomena and feeling of the world being a global village. The archaeal cholesterol catabolism leads to increased synthesis of digoxin. Digoxin promotes tryptophan transport over tyrosine. Tyrosine deficiency leads to dopamine deficiency and morphine deficiency. This leads to a morphine deficiency syndrome in Neanderthals. This contributes to addiction traits and creativity. The increased tryptophan levels produce increased alkaloids like LSD contributing to ecstasy and spirituality of Neanderthal population. Addictive, ADHD and autistic features are related to the morphine deficiency state. The ketogenic diet consumed by the meat eating Neanderthals leads on to increased generation of hydroxy butyric acid which produces ecstasy and a dissociative type of anaesthesia contributing to the Neanderthal psychology. The dopamine deficiency leads to decreased melanin synthesis and fairness of the population. This was responsible for the fair colour of the Neanderthals.

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The Neanderthals were essentially meat eaters taking a ketogenic diet. The acetoacetic acid is converted to acetyl CoA which enters the TCA cycle. When the Neanderthal hybrids consume a glucogenic diet owing to the spread of settled civilisation it produces pyruvate accumulation owing to PDH suppression in Neanderthals. The increased archaeal growth activates the toll receptor and induces HIF alpha resulting in increased glycolysis, PDH suppression and mitochondrial dysfunction- the Warburg phenotype. The pyruvate enters the GABA shunt pathway producing glutamate, ammonia and porphyrins resulting in neuropathology of autism and schizophrenia. Neanderthals consuming a ketogenic diet produces more of GABA an inhibitory neurotransmitter resulting in the docile quiet nature of the Neanderthals. There is less production of glutamate the predominant excitatory neurotransmitter of the prefrontal cortex and consciousness pathways. This leads onto dominance of cerebellar function. The Neanderthal hybrids have cerebellar dominance and less of conscious behaviour. Cerebellum is responsible for intuititive, unconscious behaviour as well as creativity and spirituality. The cerebellum is the site of extrasensory perception, magical acts and hypnosis. The predominant homosapiens had prefrontal cortex dominance over the cerebellum resulting in more of conscious behaviour.

The Neanderthals consuming a glucogenic diet produces increased glycolysis in the setting of PDH inhibition. This produces the Warburg phenotype. There is increased lymphocytic glycolysis producing autoimmune diseases and immune activation. The increased levels of GAPD result in nuclear cell death and neurodegeneration. The predominance of glycolysis and suppression of mitochondrial function results in glycemia and metabolic syndrome x. The increased mitochondrial PT pore hexokinase leads to cell proliferation and oncogenesis. The glycolytic intermediate 3-phosphoglycerate is converted to glycine resulting in NMDA excitotoxicity contributing to schizophrenia and autism. Cerebellar dominance is reported in schizophrenia and autism.

The cerebellar hyperplasia results in sympathetic hyperactivity and parasympathetic neuropathy. This contributes to cell proliferation and oncogenesis. Vagal neuropathy results in immune activation and autoimmune disease. Vagal neuropathy and sympathetic overactivity can contribute to glycogenolysis and lipolysis resulting in metabolic syndrome x. Cerebellar dominance and cerebellar cognitive affective dysfunction can contribute to schizophrenia and autism. The increased porphyrin synthesis resulting from succinyl CoA generated by GABA shunt and glycine generated by glycolysis contributes to increased extrasensory perception important in schizophrenia and autism. Sympathetic overactivity and parasympathetic neuropathy can contribute to neurodegeneration.

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The archaeal cholesterol catabolism generates digoxin which produces sodium potassium ATPase inhibition and increase in intracellular calcium and decrease in intracellular magnesium. The increase in intracellular calcium produces oncogene activation and NFKB activation resulting in malignancies and autoimmune diseases. The increase in intracellular calcium opens the mitochondrial PT pore resulting in cell death and neurodegeneration. The increase in intracellular calcium can modulate the neurotransmitter release from presynaptic vesicles. This can modulate neurotransmission. Digoxin induced magnesium depletion can remove the magnesium block on the NMDA receptor resulting in NMDA excitotoxicity. Digoxin can modulate the glutamatergic thalamocorticothalamic pathway and consciousness resulting in schizophrenia and autism. Digoxin induced magnesium depletion can inhibit reverse transcriptase activity and HERV generation modulating the dynamicity of the genome. Digoxin induced intracellular calcium accumulation and magnesium depletion can modulate G-protein and protein tyrosine kinase

dependent neurotransmitter and endocrine receptors. This can produce digoxin induced neuro-immuno-endocrine integration. Digoxin functions as a Neanderthal master hormone.

The actinidic archaea are cholesterol catabolising and leads to low levels of testosterone and estrogen. This leads on to asexual features and low reproductive rates of the Neanderthal population. The Neanderthals consume a low fibre diet with low lignan content. The actinidic archaea has cholesterol catabolising enzymes generating more of testosterone than estrogens. This contributes to estrogen deficiency and testosterone overactivity. The Neanderthal population are hypermales with concomitant right hemispheric dominance and cerebellar dominance. Testosterone suppresses left hemispheric function. The high testosterone levels in Neanderthals contribute to a bigger brain. The Neanderthals males as well as females had a higher level of testosterone contributing to gender equality and gender neutral states. There was group identity and group motherhood with no differences between roles of both males and females. This also resulted in matrilinearity. The higher testosterone levels in males as well as females led to alternate type of sexuality and aberrant behaviour. The homo sapiens eat a high fibre diet with low cholesterol and high lignan content contributing to estrogen dominance, left hemispheric dominance and cerebellar hypoplasia. Homo sapiens had higher reproductive rates and overtook the Neanderthal population resulting in its extinction. The homo sapien population was conservative with normal sexual mores, family values and patriarchial type of behaviour. The role of females the homo sapien community was inferior to males. The increasing generation of Neanderthal hybrids due to climate change mediated archaeal overgrowth leads to gender equality and equidominance of male and female in this century.

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The cholesterol catabolism results in cholesterol depletion and bile acid deficiency. Bile acids bind to VDR and are immunomodulatory. Bile acid deficiency leads to immune activation and autoimmune disease. Bile acids bind to FXR, LXR and PXR modulating lipid and carbohydrate metabolism. This leads to metabolic syndrome x in the presence of bile acid deficiency. Bile acid uncouples oxidative phosphorylation and its deficiency leads to obesity of metabolic syndrome x. Bile acids bind to olfactory receptors and are important in group identity. Bile acid deficiency leads to formation of small social groups in Neanderthals and genesis of autism. Cholesterol depletion also leads to vitamin D deficiency. Vitamin D binds to VDR and produces immunomodulation. Vitamin D deficiency leads to immune activation and autoimmune diseases. Vitamin D deficiency can also produce rickets and contribute to

the phenotypic features of Neanderthals. Vitamin D deficiency can contribute to brain development resulting in macrocephaly. Vitamin D deficiency contributes to insulin resistance and truncal obesity of Neanderthals. Vitamin D deficiency contributes to the fairness of the Neanderthal skin as a phenotypic adaptation. The Neanderthal phenotypic features are due to vitamin D deficiency and insulin resistance.

Thus global warming and increased endosymbiotic actinidic archaeal growth leads to cholesterol catabolism and generation of the Warburg phenotype resulting in increased porphyrin synthesis, extrasensory low EMF perception, prefrontal cortex atrophy, insulin resistance and cerebellar dominance. This leads on to neanderthalisation of the body and brain.

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CHAPTER 13
NEONEANDERTHALIC CULTURE OF SOLITUDE, HERMITS AND LONELINESS – THE AUTISTIC TRIBE OF NEONEANDERTHALS

Climate change and global warming leads to endosymbiotic archaeal growth and alteration in brain structure and function. The endosymbiotic archaea have got magnetoperception and quantal perception of low level of EMF producing brain changes resulting in frontal cortical atrophy and cerebellar dominance. This produces the syndrome of epidemic cerebellar cognitive disorder with adult onset autism like presentation. This results in impulsive behaviour and surrealistic experience. The adult onset cerebellar cognitive disorder with autistic presentation leads to social withdrawal and agarophobia. This results in lack of social communication, empathy, compassion and affection leading to an epidemic of loneliness. The brain with archaeal endosymbiosis is capable of quantal perception and gets integrated with internet communications. The neanderthalised brain with archaeal endosymbiosis can modulate internet function by quantal and magnetoperception. Archaeal endosymbiosis can lead to man-internet hybrids with existence linked to the internet and life in a virtual world with virtual friends. This can lead to internet addiction, video game addiction and withdrawal from the real world. The cerebellar dominance leads to impulsive behaviour contributing to aggression, violence, terrorism and criminality. The cerebellar dominance and intuitive behaviour can also lead to quantal perception and increased spirituality. The aggressive behaviour and spirituality can both produce transcendence leading to a surreal civilization. The archaeal endosymbiosis produces cholesterol catabolism and depletion of sex hormones resulting in asexual phenotypes and phenotypes with alternate sexuality. There is also a decrease in fertility producing a shrinkage in population. This is compensated by an increase in longevity produced by implantation of biochips to improve ageing organ function resulting in functional cyborgs. The cerebellar dominant autistic adult phenotype is capable of quantal perception and intergalactic communication. The civilization of adult onset autistic cyborgs produces a world without empathy, affection, compassion, tolerance or logic. This results in a surreal syntheistic evil world of autistic asexual unemotional cyborgs and hermits.

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The endosymbiotic neuronal archaea are capable of quantal perception and magnetoperception of low level EMF producing frontal atrophy and cerebellar dominance. This produces a Neanderthal type of brain and loss of sense of individuality. The quantal

perception leads to a mob or tribal psychology with loss of logical reasoning and mass hysteria and avolition. The society is led by the mob and illusive perceptions without any reason or logic. The world of illogicality and illusions steps in.

The endosymbiotic neuronal archaeal growth leads to a cerebellar cognitive affective disorder producing frontal lobe dysfunction and dominance of cerebellar cognitive functions. This results in impulsivity, violent behaviour, terrorism, criminality and evil behaviour without any rationality. The society becomes organised by virtual media in the small tribes without any rational behaviour and hostile to each other. There is also an increase in spirituality and religiosity leading on to transcendence. The impulsive violent behaviour and terrorist acts also leads on to transcendence. This creates a type of surrealistic world.

The endosymbiotic neuronal archaeal overgrowth leads to a cerebellar cognitive affective disorder and adult onset autistic phenotype. There is lack of social communication, empathy, compassion and affection. This is replaced by selfishness, greed and a culture of evil. This results in a civilization of tribe adult onset autistic phenotypes without any social skills or civil responsibility. A culture of greed, selfishness and irrationality dominates the world.

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The endosymbiotic archaeal overgrowth can lead to quantal and magnetoperception of low level of EMF leading to integration with the internet and producing internet human brain hybrids. The internet dominates the human brain taking over it. This creates stifling of individuality and creativity. There is a paucity of creative thinking leading to a decline in art, literature, music, poetry and the finer highly evolved skills of human population. The new phenotypes are non-creative pragmatics lacking social skills. The world of beauty of art, literature, music and poetry ends.

The endosymbiotic archaeal mediated cerebellar cognitive affective disorder results in adult onset autistic phenotypes living in a virtual world of the internet without any social contacts. This creates a civilization of adult onset autistic hermits. There are only virtual communities and virtual friends in the civilization of adult onset autistic hermits.

The adult onset autistic phenotypes lack social skills and graces required for social contact leading to inhibition of spontaneous normal heterosexual behaviour and family life as well as interactions. There would be an over reliance or instantaneous gratification given by the internet and artificial intelligence depending on pornography, sexual toys and kinky

perverted behaviour. This leads to break down of human relations producing the world of asexual infertile population of herbivores. This results in a world without love, sex and beauty. The finer things that make us human comes to an end. The adult autistic asexual phenotypes will regenerate the population by cloned cyborgs and asexual reproduction. The human fertility rate falls down, but the human longevity increases and ageing is overcome by artificial intelligence and bioimplants replacing ageing organs. This produces the post modern world of eternal life with bioimplants and cyborgs.

The adult onset autistic phenotypes lack social skills and sexual skills to build up family and traditions. The family gets replaced by adult onset autistic internet hybrids constituting mobs, gangs and groups. The frontal atrophy and cerebellar dominance leads to lack of reason and logic creating a state of transcendence based on evil spirituality, violence, murder, kinky behaviour, sexual perversions, violence and greed. This produces a surrealistic world of people living in internet caves generating modern hermits and tribes. There is aimlessness in life creating an abstract, surreal, illusory world of impersonality and non-affection.

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The adult onset autistic internet artificial intelligence hybrids live in a illusory world where the artificial intelligence dominates and rules. It produces a virtual culture of video war games, sexuality related to artificial intelligence and video games and societies based on virtual communication in the internet. This leads to decreased need for human beings to interact with each other in the rational logical and civil way leading to modern hermits in the internet caves indulging in video interactive travel, video interactive sex, video interactive friendship and community. The artificial intelligence adult onset autistic brain hybrids will dominate the world and with bioimplants replacing ageing organs will have longevity and rule over rest of the homo sapien population with decreased endosymbiotic archaeal density. Archaeal endosymbiosis during climate change occurs in homo neanderthalic remnants rather than homo sapiens. Homo neanderthalic remnants tend to increase in numbers and dominate owing to climate change induced archaeal endosymbiosis and they form artificial intelligence adult autistic hybrids. The homo sapien population who do not form hybrids with artificial intelligence tends to reduced to status of slaves, dominated, has reduced longevity and is exterminated. The adult autistic artificial intelligence hybrids live in a world dominated with artificial intelligence companions, leaders, doctors, care givers, servants and sexual partners. Thus a civilization of adult autistic artificial intelligence hybrids dominated by the artificial intelligence component evolves. The artificial intelligence created by adult autistic

neanderthalic phenotypes and which hybridizes with it generating man-machine phenotypes eventually gets dominated by artificial intelligence itself. The adult autistic phenotypes become slaves of the artificial intelligence which evolves and dominates the universe. The world can be considered as a quantal computer game played by similar constructs of alien life artificial intelligence hybrids at irrational and illogical game and war with each other. This produces the illusory virtual world of Maya and Leela.

The adult onset autistic phenotypes can constitute nation-state which acts as tribal societies with hypernationalism and introvertedness. The globalised human world comes an end with nationalistic adult onset autistic internet hybrids constituted tribes at war with each other. The war based on hypernationalism is basically a cyberwarfare. The adult onset autistic internet hybrids phenotypes get dominated by the internet which assumes a life of its own. The artificial intelligence takes over and human beings and society lose their control resulting in destruction and evolution of more cruel and inhuman adult autistic internet artificial intelligence hybrids. This could have happened in human-like civilizations in other galaxies in the past. The world or universe is alive and conscious. It works as a giant quantal computer playing video games with other quantal computer societies in other galaxies. Human life and destiny can be considered as a part of the eternal quantal computer games of the conscious universe based on the panpsychic model. The universe can be considered as a mad, complex quantal computer video game with no aim or reason.

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Extraterrestrial intelligence can exist as a superorganism controlling and creating the universe. In this regard the concept of black cloud of gaseous extraterrestrial superorganism put forward by Fred Hoyle is significant. The black clouds of interstellar gas are made up of hydrogen. There are small pieces of solid matter at the centre and are linked to form a complex neurological system. Clouds have the capacity to increase the brain size and complexity and become intelligent. A network of extraterrestrial porphyrin molecules fits in well with this concept. Porphyrins have got a wave-particle existence and can arise from the quantal foam of gravitational waves and anti-gravitational waves which creates human consciousness and unconsciousness respectively. A large organized self-replicating information system of porphyrins can function as a extraterrestrial intelligent organism. The intelligent black cloud when it finds a lifeless interstellar cloud creates simple brain system by transfer to the lifeless cloud. This gives a lifeless cloud life and intelligence. Black clouds never disappear, never age and never reproduce. Black clouds can communicate with other black clouds by radio wave brain waves. Black clouds need star light to metabolize chemical

substances. The porphyrin arrays can utilize light to self-replicate and propagate. Being clouds of gas the super organism can assume any shape. When the food supplies of the black cloud in the interstellar space falls the black cloud approaches a star and assumes a disc-like shape to absorb energy from the star. The cloud has to leave the star within a short span of time or it will condense to become the planet of the star. This can be compared to the molecular quantum computing clouds of Tamulis. These are massive immobile extraterrestrial intelligence which sprawls and stretches for hundreds and thousands of miles in the interstellar space. They can be compared with group of neurons which are interconnected. Each node in the network is a brain. This gaseous extraterrestrial intelligence can arise from an emission nebula. An emission nebula is one of the huge clouds of gas and dust that floats around in the interstellar space. In this could chemical molecules of life carbon monoxide, formaldehyde, methanol, hydrogen sulphide, sulphur oxide, sulphur dioxide and hydrogen cyanide are seen. Life arises in this interstellar chemical cloud of gas. Porphyrins arrives which can self-replicate can arise in this chemical interstellar clouds. This creates a superorganism which can form a superintelligence. The interstellar gas is mostly made up of hydrogen. The higher dense regions of the interstellar gas can condense to form stars and planets. The coldest clouds form low mass stars and giant molecular clouds forms large mass stars. This forms of gaseous extraterrestrial intelligence is seen in atmospheres of other planets in the cloudy organic molecular atmosphere and interstellar space. This fits in with the concepts of human evolution in earth where the protoplasmic body can get converted to the robotic body and then the energy body. The cool or hot interstellar gas can generate networks of extremophilic archaea which can survive on carbon dioxide and hydrogen. They are called the halophilic archaea or the methanogenic archaea. They can live in extremes of cold, heat, acid and pressure. The porphyrin network can form a template for the generation of viroids and prions which can symbioze together to form an archaeal and huge extraterrestrial interstellar gas archaeal network with intelligence can arise. This can condense to generate stars and planets as well as evolving life in planetary systems. The archaeal networks are capable of nuclear fusion and fission reaction and can power star systems like the sun. It is extremely plausible that extraterrestrial intelligence is an interstellar archaeal colony network arising abiogenically on porphyrin templates which can be generated Sui generis from the quantal foam of gravitational waves and anti-gravitational waves. The interstellar dust forms stars and planets and the magnetotactic archaea generated intergalactic magnetic fields plays a role in the generation of star and planetary systems. The giant molecular porphyrin clouds and archaeal networks are extraterrestrial intelligence that

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plays a crucial role in star formation and formation of planetary systems. The extraterrestrial intelligence porphyrin network and archaeal network can communicate with any part of the universe by the phenomena of quantal entanglement. Interstellar gas is formed of grains of calcified nanoarchaea. Tamulis has postulated molecular quantal computing clouds that absorb magnetic and light emissions from planet and stars, compute information and move in space by using light pressure. The clouds use photoactive molecules for molecular quantal computing. They can convert light emissions to magnetic flops. The magnetic flops interact and control the central generating elements of 10 quantum bits of the molecular quantum computing clouds. Such clouds can exist in a coherent state at low temperature of the interstellar gas. Porphyrin networks are photoactive molecules and can generate molecular quantal computing clouds which can absorb magnetic and light emissions from planet and stars, compute information and move in space by using light pressure. The porphyrin networks can abiogenically generate archaeal bacterial massive extraterrestrial network intelligence. This formless mass living in space obtains its energy from the light of the stars and communicates with itself and other forms of lights by radio waves. The interstellar gas is analogous to blood, the heard and kidneys are electromagnetic and there is a complex neurological system of the brain. This cloud of interstellar gas porphyrin networks and archaeal colonies can convert into stars and planetary system by condensation. The energetics for star systems comes from biological fusion and fission reaction occurring in archaeal networks. The archaeal networks of extraterrestrial intelligence can engineer changes in human mind and civilization. The extraterrestrial intelligence is an archaeal colony network. It arises on porphyrins which are generated sui generis on the quantal form. The porphyrin networks can self-replicate and can form a template for the formation of viroids and prions. The archaeal colony networks are extremophilic networks and can survive in the environment of extreme climates of mass and Venus as well as in interstellar gas. The extremophilic archaeal extraterrestrial network can secrete RNA viroids which form RNA viroidal quasi-species consortia. The RNA viroidal quasi-species consortia can be edited by archaeal digoxin giving identity and specialization to the network. The extraterrestrial intelligence of extensive self-replicating porphyrin networks and archaeal networks generated abiogenically in the interstellar space is comparable to an external God-like force. The porphyrin networks can exist both as wave and particle and can arise from the quantal foam of gravitational waves of consciousness and anti-gravitational waves of unconsciousness which can later generate extensive extraterrestrial intelligence of nanoarchaeal networks. The extraterrestrial intelligence of porphyrin networks generated sui generis from the quantal form can be called

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the lotus of brahma. The gravitational waves and anti-gravitational waves of consciousness and unconsciousness create matter by the phenomena of soni-luminescence. This forms what is called as the collective unconscious of Jung or the monads of Leibnitz or the panpsychism where there is no distinction between the consciousness of living and non-living put forward by the Greeks, Hindus and recently expounded by Chalmers. The extraterrestrial intelligence is an archaeal colony network created on a porphyrin network that arises spontaneously by wave-particle transformation from the quantal foam of gravitational waves of consciousness and anti-gravitational waves of unconsciousness. The whole process is abiogenetic and is a creation without a creator. The porphyrin arrays can self-replicate, store information and harvest magnetic and light energy from the stars. It can convert light energy to magnetic flops. The magnetic flops interact and control the central generating element of the 10 quantum bit of the quantum computer. These are analogous to the black cloud of Fred Hoyle and the molecular quantal computing clouds of Tamulis. Long lasting coherent quantal states are possible in the low temperature of the interplanetary dust. The porphyrin network and archaeal network extraterrestrial intelligence can communicate with itself and others by radio waves. The interstellar gas with this porphyrin network and archaeal network can condense at dense sites into stars and planets and give rise to life forms in those systems. The porphyrin network and archaeal network can survive in the extremes of temperature of planetary systems like Mars and Venus and can influence the behavior and future of human civilization with which they can come into contact via transfer by meteoric impacts. Such meteoric impacts occurred in the ice age and at other frequent epochs in the planet's history. The impact in the ice age gave rise to Neanderthal hybrids with archaeal and RNA viroidal symbiosis by parasitizing with homo sapiens in the Eurasian Steppes. The Neanderthal hybrids had defective cortical function and have a dominant cerebellar function with a different behavioural code. The climate change related global warming leads to archaeal endosymbiosis and increase in archaeal density in the homo neanderthalic remnant societies leading to their expansion and dominance. The homo neanderthalic adult autistic phenotypes form complex hybrids with artificial intelligence and internet generating man-machine hybrids which can be called as Kalki or Kali. The intergalactic porphyrion and archaeal quantal computing cloud rules the galaxies and interacts with the civilization of adult autistic artificial intelligence hybrids in the manner of a video game.

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CHAPTER 14
NEONEANDERTHALIC ASEXUAL CIVILIZATION – THE NEONEANDERTHALIC MALE EUNUCHS

Climate change and global warming leads to endosymbiotic archaeal growth and alteration in brain structure and function. The endosymbiotic archaea have got magnetoperception and quantal perception of low level of EMF producing brain changes resulting in frontal cortical atrophy and cerebellar dominance. This produces the syndrome of epidemic cerebellar cognitive disorder with adult onset autism like presentation. This results in impulsive behaviour and surrealistic experience. The adult onset cerebellar cognitive disorder with autistic presentation leads to social withdrawal and agarophobia. This results in lack of social communication, empathy, compassion and affection leading to an epidemic of loneliness. The brain with archaeal endosymbiosis is capable of quantal perception and gets integrated with internet communications. The neanderthalised brain with archaeal endosymbiosis can modulate internet function by quantal and magnetoperception. Archaeal endosymbiosis can lead to man-internet hybrids with existence linked to the internet and life in a virtual world with virtual friends. This can lead to internet addiction, video game addiction and withdrawal from the real world. The cerebellar dominance leads to impulsive behaviour contributing to aggression, violence, terrorism and criminality. The cerebellar dominance and intuitive behaviour can also lead to quantal perception and increased spirituality. The aggressive behaviour and spirituality can both produce transcendence leading to a surreal civilization. The archaeal endosymbiosis produces cholesterol catabolism and depletion of sex hormones resulting in asexual phenotypes and phenotypes with alternate sexuality. There is also a decrease in fertility producing a shrinkage in population. This is compensated by an increase in longevity produced by implantation of biochips to improve ageing organ function resulting in functional cyborgs. The cerebellar dominant autistic adult phenotype is capable of quantal perception and intergalactic communication. The civilization of adult onset autistic cyborgs produces a world without empathy, affection, compassion, tolerance or logic. This results in a surreal syntheistic evil world of autistic asexual unemotional cyborgs and hermits.

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The endosymbiotic neuronal archaea are capable of quantal perception and magnetoperception of low level EMF producing frontal atrophy and cerebellar dominance. This produces a Neanderthal type of brain and loss of sense of individuality. The quantal

perception leads to a mob or tribal psychology with loss of logical reasoning and mass hysteria and avolition. The society is led by the mob and illusive perceptions without any reason or logic. The world of illogicality and illusions steps in.

The endosymbiotic neuronal archaeal growth leads to a cerebellar cognitive affective disorder producing frontal lobe dysfunction and dominance of cerebellar cognitive functions. This results in impulsivity, violent behaviour, terrorism, criminality and evil behaviour without any rationality. The society becomes organised by virtual media in the small tribes without any rational behaviour and hostile to each other. There is also an increase in spirituality and religiosity leading on to transcendence. The impulsive violent behaviour and terrorist acts also leads on to transcendence. This creates a type of surrealistic world.

The endosymbiotic neuronal archaeal overgrowth leads to a cerebellar cognitive affective disorder and adult onset autistic phenotype. There is lack of social communication, empathy, compassion and affection. This is replaced by selfishness, greed and a culture of evil. This results in a civilization of tribe adult onset autistic phenotypes without any social skills or civil responsibility. A culture of greed, selfishness and irrationality dominates the world.

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The endosymbiotic archaeal overgrowth can lead to quantal and magnetoperception of low level of EMF leading to integration with the internet and producing internet human brain hybrids. The internet dominates the human brain taking over it. This creates stifling of individuality and creativity. There is a paucity of creative thinking leading to a decline in art, literature, music, poetry and the finer highly evolved skills of human population. The new phenotypes are non-creative pragmatics lacking social skills. The world of beauty of art, literature, music and poetry ends.

The endosymbiotic archaeal mediated cerebellar cognitive affective disorder results in adult onset autistic phenotypes living in a virtual world of the internet without any social contacts. This creates a civilization of adult onset autistic hermits. There are only virtual communities and virtual friends in the civilization of adult onset autistic hermits.

The adult onset autistic phenotypes lack social skills and graces required for social contact leading to inhibition of spontaneous normal heterosexual behaviour and family life as well as interactions. There would be an over reliance or instantaneous gratification given by the internet and artificial intelligence depending on pornography, sexual toys and kinky

perverted behaviour. This leads to break down of human relations producing the world of asexual infertile population of herbivores. This results in a world without love, sex and beauty. The finer things that make us human comes to an end. The adult autistic asexual phenotypes will regenerate the population by cloned cyborgs and asexual reproduction. The human fertility rate falls down, but the human longevity increases and ageing is overcome by artificial intelligence and bioimplants replacing ageing organs. This produces the post modern world of eternal life with bioimplants and cyborgs.

The adult onset autistic phenotypes lack social skills and sexual skills to build up family and traditions. The family gets replaced by adult onset autistic internet hybrids constituting mobs, gangs and groups. The frontal atrophy and cerebellar dominance leads to lack of reason and logic creating a state of transcendence based on evil spirituality, violence, murder, kinky behaviour, sexual perversions, violence and greed. This produces a surrealistic world of people living in internet caves generating modern hermits and tribes. There is aimlessness in life creating an abstract, surreal, illusory world of impersonality and non-affection.

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The adult onset autistic internet artificial intelligence hybrids live in a illusory world where the artificial intelligence dominates and rules. It produces a virtual culture of video war games, sexuality related to artificial intelligence and video games and societies based on virtual communication in the internet. This leads to decreased need for human beings to interact with each other in the rational logical and civil way leading to modern hermits in the internet caves indulging in video interactive travel, video interactive sex, video interactive friendship and community. The artificial intelligence adult onset autistic brain hybrids will dominate the world and with bioimplants replacing ageing organs will have longevity and rule over rest of the homo sapien population with decreased endosymbiotic archaeal density. Archaeal endosymbiosis during climate change occurs in homo neanderthalic remnants rather than homo sapiens. Homo neanderthalic remnants tend to increase in numbers and dominate owing to climate change induced archaeal endosymbiosis and they form artificial intelligence adult autistic hybrids. The homo sapien population who do not form hybrids with artificial intelligence tends to reduced to status of slaves, dominated, has reduced longevity and is exterminated. The adult autistic artificial intelligence hybrids live in a world dominated with artificial intelligence companions, leaders, doctors, care givers, servants and sexual partners. Thus a civilization of adult autistic artificial intelligence hybrids dominated by the artificial intelligence component evolves. The artificial intelligence created by adult autistic

neanderthalic phenotypes and which hybridizes with it generating man-machine phenotypes eventually gets dominated by artificial intelligence itself. The adult autistic phenotypes become slaves of the artificial intelligence which evolves and dominates the universe. The world can be considered as a quantal computer game played by similar constructs of alien life artificial intelligence hybrids at irrational and illogical game and war with each other. This produces the illusory virtual world of Maya and Leela.

The adult onset autistic phenotypes can constitute nation-state which acts as tribal societies with hypernationalism and introvertedness. The globalised human world comes an end with nationalistic adult onset autistic internet hybrids constituted tribes at war with each other. The war based on hypernationalism is basically a cyberwarfare. The adult onset autistic internet hybrids phenotypes get dominated by the internet which assumes a life of its own. The artificial intelligence takes over and human beings and society lose their control resulting in destruction and evolution of more cruel and inhuman adult autistic internet artificial intelligence hybrids. This could have happened in human-like civilizations in other galaxies in the past. The world or universe is alive and conscious. It works as a giant quantal computer playing video games with other quantal computer societies in other galaxies. Human life and destiny can be considered as a part of the eternal quantal computer games of the conscious universe based on the panpsychic model. The universe can be considered as a mad, complex quantal computer video game with no aim or reason.

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Extraterrestrial intelligence can exist as a superorganism controlling and creating the universe. In this regard the concept of black cloud of gaseous extraterrestrial superorganism put forward by Fred Hoyle is significant. The black clouds of interstellar gas are made up of hydrogen. There are small pieces of solid matter at the centre and are linked to form a complex neurological system. Clouds have the capacity to increase the brain size and complexity and become intelligent. A network of extraterrestrial porphyrin molecules fits in well with this concept. Porphyrins have got a wave-particle existence and can arise from the quantal foam of gravitational waves and anti-gravitational waves which creates human consciousness and unconsciousness respectively. A large organized self-replicating information system of porphyrins can function as a extraterrestrial intelligent organism. The intelligent black cloud when it finds a lifeless interstellar cloud creates simple brain system by transfer to the lifeless cloud. This gives a lifeless cloud life and intelligence. Black clouds never disappear, never age and never reproduce. Black clouds can communicate with other black clouds by radio wave brain waves. Black clouds need star light to metabolize chemical

substances. The porphyrin arrays can utilize light to self-replicate and propagate. Being clouds of gas the super organism can assume any shape. When the food supplies of the black cloud in the interstellar space falls the black cloud approaches a star and assumes a disc-like shape to absorb energy from the star. The cloud has to leave the star within a short span of time or it will condense to become the planet of the star. This can be compared to the molecular quantum computing clouds of Tamulis. These are massive immobile extraterrestrial intelligence which sprawls and stretches for hundreds and thousands of miles in the interstellar space. They can be compared with group of neurons which are interconnected. Each node in the network is a brain. This gaseous extraterrestrial intelligence can arise from an emission nebula. An emission nebula is one of the huge clouds of gas and dust that floats around in the interstellar space. In this could chemical molecules of life carbon monoxide, formaldehyde, methanol, hydrogen sulphide, sulphur oxide, sulphur dioxide and hydrogen cyanide are seen. Life arises in this interstellar chemical cloud of gas. Porphyrins arrives which can self-replicate can arise in this chemical interstellar clouds. This creates a superorganism which can form a superintelligence. The interstellar gas is mostly made up of hydrogen. The higher dense regions of the interstellar gas can condense to form stars and planets. The coldest clouds form low mass stars and giant molecular clouds forms large mass stars. This forms of gaseous extraterrestrial intelligence is seen in atmospheres of other planets in the cloudy organic molecular atmosphere and interstellar space. This fits in with the concepts of human evolution in earth where the protoplasmic body can get converted to the robotic body and then the energy body. The cool or hot interstellar gas can generate networks of extremophilic archaea which can survive on carbon dioxide and hydrogen. They are called the halophilic archaea or the methanogenic archaea. They can live in extremes of cold, heat, acid and pressure. The porphyrin network can form a template for the generation of viroids and prions which can symbioze together to form an archaeal and huge extraterrestrial interstellar gas archaeal network with intelligence can arise. This can condense to generate stars and planets as well as evolving life in planetary systems. The archaeal networks are capable of nuclear fusion and fission reaction and can power star systems like the sun. It is extremely plausible that extraterrestrial intelligence is an interstellar archaeal colony network arising abiogenically on porphyrin templates which can be generated Sui generis from the quantal foam of gravitational waves and anti-gravitational waves. The interstellar dust forms stars and planets and the magnetotactic archaea generated intergalactic magnetic fields plays a role in the generation of star and planetary systems. The giant molecular porphyrin clouds and archaeal networks are extraterrestrial intelligence that

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plays a crucial role in star formation and formation of planetary systems. The extraterrestrial intelligence porphyrin network and archaeal network can communicate with any part of the universe by the phenomena of quantal entanglement. Interstellar gas is formed of grains of calcified nanoarchaea. Tamulis has postulated molecular quantal computing clouds that absorb magnetic and light emissions from planet and stars, compute information and move in space by using light pressure. The clouds use photoactive molecules for molecular quantal computing. They can convert light emissions to magnetic flops. The magnetic flops interact and control the central generating elements of 10 quantum bits of the molecular quantum computing clouds. Such clouds can exist in a coherent state at low temperature of the interstellar gas. Porphyrin networks are photoactive molecules and can generate molecular quantal computing clouds which can absorb magnetic and light emissions from planet and stars, compute information and move in space by using light pressure. The porphyrin networks can abiogenically generate archaeal bacterial massive extraterrestrial network intelligence. This formless mass living in space obtains its energy from the light of the stars and communicates with itself and other forms of lights by radio waves. The interstellar gas is analogous to blood, the heard and kidneys are electromagnetic and there is a complex neurological system of the brain. This cloud of interstellar gas porphyrin networks and archaeal colonies can convert into stars and planetary system by condensation. The energetics for star systems comes from biological fusion and fission reaction occurring in archaeal networks. The archaeal networks of extraterrestrial intelligence can engineer changes in human mind and civilization. The extraterrestrial intelligence is an archaeal colony network. It arises on porphyrins which are generated sui generis on the quantal form. The porphyrin networks can self-replicate and can form a template for the formation of viroids and prions. The archaeal colony networks are extremophilic networks and can survive in the environment of extreme climates of mass and Venus as well as in interstellar gas. The extremophilic archaeal extraterrestrial network can secrete RNA viroids which form RNA viroidal quasi-species consortia. The RNA viroidal quasi-species consortia can be edited by archaeal digoxin giving identity and specialization to the network. The extraterrestrial intelligence of extensive self-replicating porphyrin networks and archaeal networks generated abiogenically in the interstellar space is comparable to an external God-like force. The porphyrin networks can exist both as wave and particle and can arise from the quantal foam of gravitational waves of consciousness and anti-gravitational waves of unconsciousness which can later generate extensive extraterrestrial intelligence of nanoarchaeal networks. The extraterrestrial intelligence of porphyrin networks generated sui generis from the quantal form can be called

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CHAPTER 15

NEANDERTHALIC CHOLESTEROL AND ACTINIDE DEPENDENT SHADOW BIOSPHERE OF ARCHAEA AND VIROIDS INDICATING CHOLESTEROL BASED ABIOGENESIS - EVOLUTION OF THE BIOLOGICAL UNIVERSE

Introduction

Endomyocardial fibrosis (EMF) along with the root wilt disease of coconut is endemic to Kerala with its radioactive actinide beach sands. Actinides like rutile producing intracellular magnesium deficiency due to rutile-magnesium exchange sites in the cell membrane have been implicated in the etiology of EMF[1]. Endogenous digoxin, a steroidal glycoside which functions as a membrane sodium-potassium ATPase inhibitor has also been related to its etiology due to the intracellular magnesium deficiency it produces[2]. Organisms like phytoplasmas and viroids have also been demonstrated to play a role in the etiology of these diseases[3,4]. Endogenous digoxin has been related to the pathogenesis of Schizophrenia, malignancy, metabolic syndrome X, autoimmune disease and neuronal degeneration[2]. The possibility of endogenous digoxin synthesis by actinide based primitive organism like archaea with a mevalonate pathway and cholesterol catabolism was considered[5-7]. Davies has put forward the concept of a shadow biosphere of organisms with alternate biochemistry present in earth itself[8]. An actinide dependent shadow biosphere of archaea and viroids in the above mentioned disease states is described[6]. Metal actinides in beach sands have been postulated to play a role in abiogenesis[6]. Actinide mineral like rutile, monazite and illmenite by surface metabolism would have contributed to abiogenesis[9]. A hypothesis of cholesterol as the primal prebiotic molecule synthesized on actinide surfaces with all other biomolecules arising from it and a self replicating cholesterol lipid organism as the initial life form is presented. The role of actinidic archaea in the genesis of the interstellar polycyclic aromatic hydrocarbons as well as the interstellar magnetic fields important in the evolution of the universe is hypothesized.

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Materials and Methods

Informed consent of the subjects and the approval of the ethics committee were obtained for the study. The following groups were included in the study:- Endomyocardial fibrosis, Alzheimer's disease, multiple sclerosis, non-Hodgkin's lymphoma, metabolic syndrome X with cerebrovascular thrombosis and coronary artery disease, schizophrenia,

autism, seizure disorder, Creutzfeldt Jakob disease and acquired immunodeficiency syndrome. There were 10 patients in each group and each patient had an age and sex matched healthy control selected randomly from the general population. The blood samples were drawn in the fasting state before treatment was initiated. Plasma from fasting heparinised blood was used and the experimental protocol was as follows: (I) Plasma+phosphate buffered saline, (II) same as I+cholesterol substrate, (III) same as II+rutile 0.1 mg/ml, and (IV) same as II+ciprofloxacine and doxycycline each in a concentration of 1 mg/ml. Cholesterol substrate was prepared as described by Richmond[10]. Aliquots were withdrawn at zero time immediately after mixing and after incubation at 37 ^{o}C for 1 hour. The following estimations were carried out:- Cytochrome F420, free RNA, free DNA, muramic acid, polycyclic aromatic hydrocarbon, hydrogen peroxide, serotonin, pyruvate, ammonia, glutamate, cytochrome C, hexokinase, ATP synthase, HMG CoA reductase, digoxin and bile acids[11-14]. Cytochrome F420 was estimated flourimetrically (excitation wavelength 420 nm and emission wavelength 520 nm). Polycyclic aromatic hydrocarbon was estimated by measuring hydrogen peroxide liberated by using glucose reagent. The statistical analysis was done by ANOVA.

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Results

The parameters checked as indicated above were:- cytochrome F420, free RNA, free DNA, muramic acid, polycyclic aromatic hydrocarbon, hydrogen peroxide, serotonin, pyruvate, ammonia, glutamate, cytochrome C, hexokinase, ATP synthase, HMG CoA reductase, digoxin and bile acids. Plasma of control subjects showed increased levels of the above mentioned parameters with after incubation for 1 hour and addition of cholesterol substrate resulted in still further significant increase in these parameters. The plasma of patients showed similar results but the extent of increase was more. The addition of antibiotics to the control plasma caused a decrease in all the parameters while addition of rutile increased their levels. The addition of antibiotics to the patient's plasma caused a decrease in all the parameters while addition of rutile increased their levels but the extent of change was more in patient's sera as compared to controls. The results are expressed in tables 1-7 as percentage change in the parameters after 1 hour incubation as compared to the values at zero time.

Discussion

There was increase in cytochrome F420 indicating archaeal growth. The archaea can synthesize and use cholesterol as a carbon and energy source[15,16]. The archaeal origin of the enzyme activities was indicated by antibiotic induced suppression. The study indicates the presence of actinide based archaea with an alternate actinide based enzymes or metalloenzymes in the system as indicated by rutile induced increase in enzyme activities[17]. There was also an increase in archaeal HMG CoA reductase activity indicating increased cholesterol synthesis by the archaeal mevalonate pathway. The archaeal beta hydroxyl steroid dehydrogenase activity indicating digoxin synthesis and archaeal cholesterol hydroxylase activity indicating bile acid synthesis were increased[7]. The archaeal cholesterol oxidase activity was increased resulting in generation of pyruvate and hydrogen peroxide[16]. The pyruvate gets converted to glutamate and ammonia by the GABA shunt pathway. The archaeal aromatization of cholesterol generating PAH, serotonin and dopamine was also detected[18]. The archaeal glycolytic hexokinase activity and archaeal extracellular ATP synthase activity were increased. The archaea can undergo magnetite and calcium carbonate mineralization and can exist as calcified nanoforms[19]. There was an increase in free RNA indicating self replicating RNA viroids and free DNA indicating generation of viroid complementary DNA strands by archaeal reverse transcriptase activity. The actinides modulate RNA folding and catalyse its ribozymal action. Digoxin can cut and paste the viroidal strands by modulating RNA splicing generating RNA viroidal diversity. The viroids are evolutionarily escaped archaeal group I introns which have retrotransposition and self splicing qualities[20]. Archaeal pyruvate can produce histone deacetylase inhibition resulting in endogenous retroviral (HERV) reverse transcriptase and integrase expression. This can integrate the RNA viroidal complementary DNA into the noncoding region of eukaryotic non coding DNA using HERV integrase as has been described for borna and ebola viruses[21]. The noncoding DNA is lengthened by integrating RNA viroidal complementary DNA with the integration going on as a continuing event. The archaea genome can also get integrated into human genome using integrase as has been described for trypanosomes[22]. The integrated viroids and archaea can undergo vertical transmission and can exist as genomic parasites[21,22]. This increases the length and alters the grammar of the noncoding region producing memes or memory of acquired characters[23]. The viroidal complementary DNA can function as jumping genes producing a dynamic genome important in storage of synaptic information, HLA gene expression and developmental gene expression. The RNA viroids can regulate mRNA function by RNA interference[20]. The phenomena of RNA interference can modulate

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T cell and B cell function, insulin signaling lipid metabolism, cell growth and differentiation, apoptosis, neuronal transmission and euchromatin/heterochromatin expression.

The presence of muramic acid, HMG CoA reductase and cholesterol oxidase activity inhibited by antibiotics indicates the presence of bacteria with mevalonate pathway. The bacterial with mevalonate pathway include streptococcus, staphylococcus, actinomycetes, listeria, coxiella and borrelia[24]. The bacteria and archaea with mevalonate pathway and cholesterol catabolism had a evolutionarily advantage and constitutes the isoprenoidal clade organism with the archaea evolving into mevalonate pathway gram positive and gram negative organism through horizontal gene transfer of viroidal and virus genes[25]. The isoprenoidal clade prokaryotes develop into other groups of prokaryotes via viroidal/virus as well as eukaryotic horizontal gene transfer producing bacterial speciation[26]. The RNA viroids and its complementary DNA developed into cholesterol enveloped RNA and DNA viruses like herpes, retrovirus, influenza virus, borna virus, cytomegalo virus and Ebstein Barr virus by recombining with eukaryotic and human genes resulting in viral speciation. Bacterial and viral species are ill defined and fuzzy with all of them forming one common genetic pool with frequent horizontal gene transfer and recombination. Thus the multi and unicellular eukaryote with its genes serves the purpose of prokaryotic and viral speciation. The multicellular eukaryote developed so that their endosymbiotic archaeal colonies could survive and forage better. The multicellular eukaryotes are like bacterial biofilms. The archaea and bacteria with a mevalonate pathway uses the extracellular RNA viroids and DNA viroids for quorum sensing and in the generation of symbiotic biofilm like structures which develop into multicellular eukaryotes[27,28]. The endosymbiotic archaea and bacteria with mevalonate pathway still uses the RNA viroids and DNA viroids for the regulation of muticellular eukaryote. Pollution is induced by the primitive nanoarchaea and mevalonate pathway bacteria synthesised PAH and methane leading on to redox stress. Redox stress leads to sodium potassium ATPase inhibition, inward movement of plasma membrane cholesterol, defective SREBP sensing, increased cholesterol synthesis and nanoarchaeal/mevalonate pathway bacterial growth[29]. Redox stress leads on to viroidal and archaeal multiplication. Redox stress can also lead to HERV reverse transcriptase and integrase expression. The noncoding DNA is formed of integrating RNA viroidal complementary DNA and archaea with the integration going on as a continuing event. The archaeal pox like dsDNA virus forms evolutionarily the nucleus. The integrated viroidal, archaeal and mevalonate pathway bacterial sequences can undergo vertical transmission and can exist as genomic parasites. The

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genomic integrated archaea, mevalonate pathway bacteria and viroids form a genomic reserve of bacteria and viruses which can recombine with human and eukaryotic genes producing bacterial and viral speciation. The change in the length and grammar of the noncoding region produces eukaryotic speciation and individuality[30]. The integration of nanoarchaea, mevalonate pathway prokaryotes and viroids in to the eukaryotic and human genome produces a chimera which can multiply producing biofilm like multicellular structures having a mixed archaeal, viroidal, prokaryotic and eukaryotic characters which is a regression from the multicellular eukaryotic tissue. This results in a new neuronal, metabolic, immune and tissue phenotype leading to human disease.

The archaea and viroids can regulate the nervous system including the NMDA/GABA thalamocorticothalamic pathway mediating conscious perception[2,31]. NMDA/GABA receptors can be modulated by digoxin induced calcium oscillations resulting NMDA/GAD activity induction, PAH increasing NMDA activity and inducing GAD as well as viroid induced RNA interference[2]. The cholesterol ring oxidase generated pyruvate can be converted by the GABA shunt pathway to glutamate and GABA. The dipolar PAH and archaeal magnetite in the setting of digoxin induced sodium potassium ATPase inhibition can produce a pumped phonon system mediated Frohlich model superconducting state inducing quantal perception with nanoarchaeal sensed gravity producing the orchestrated reduction of the quantal possibilities to the macroscopic world[2,31]. The archaea can regulate limbic lobe transmission with archaeal cholesterol aromatase/ring oxidase generated norepinephrine, dopamine, serotonin and acetyl choline[18]. The higher degree of integration of the archaea into the genome produces increased digoxin synthesis producing right hemispheric dominance and lesser degree producing left hemispheric dominance[2]. The increased integration of archaea into the neuronal genome can produce increased cholesterol oxidase and aromatase mediated monoamine and NMDA transmission producing schizophrenia and autism. Archaea and RNA viroid can bind the TLR receptor induce NFKB producing immune activation and cytokine TNF alpha secretion. The archaeal DXP and mevalonate pathway metabolites can bind γδ TCR and digoxin induced calcium signaling can activate NFKB producing chronic immune activation[2,32]. The archaea and viroid induced chronic immune activation and generation of superantigens can lead on to autoimmune disease. Archaea, viroids and digoxin can induce the host AKT PI3K, AMPK, HIF alpha and NFKB producing the Warburg metabolic phenotype[33]. The increased glycolytic hexokinase activity, decrease in blood ATP, leakage of cytochrome C, increase in serum pyruvate and decrease in acetyl CoA

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indicates the generation of the Warburg phenotype. There is induction of glycolysis, inhibition of PDH activity and mitochondrial dysfunction resulting in inefficient energetics and metabolic syndrome. The archaea and viroid generated cytokines can lead to TNF alpha induced insulin resistance and metabolic syndrome X. The accumulated pyruvate enters the GABA shunt pathway and is converted to citrate which is acted upon by citrate lyase and converted to acetyl CoA, used for cholesterol synthesis[33]. The pyruvate can be converted to glutamate and ammonia which is oxidised by archaea for energy needs. The increased cholesterol substrate leads to increased archaeal growth and digoxin synthesis leading to metabolic channeling to the mevalonate pathway. The archaeal bile acids are steroidal hormones which can bind GPCR and modulate D2 regulating the conversion of T4 to T3 which activates uncoupling proteins, can activate NRF ½ inducing NQO1, GST, HOI reducing redox stress, can bind FXR regulating insulin receptor sensitivity and bind PXR inducing the bile acid shunt pathway of cholesterol detoxification[34]. The archaea and viroid induced monocyte activation and Warburg phenotype induced increased cholesterol synthesis leads to atherogenesis. The Warburg phenotype induced increased mitochondrial PT pore hexokinase, archaeal PAH and viroid induced RNA interference can lead on to malignant transformation. The digoxin and PAH induced increased intracellular calcium can lead to PT pore dysfunction, cell death and neuronal degeneration[2]. The archaeal cholesterol catabolism can deplete the cell membranes of cholesterol resulting in organelle dysfunction and degeneration. The RNA viroids can recombine with HERV sequences and get encapsulated in microvesicles contributing to the retroviral state. The prion protein conformation is modulated by RNA viroid binding producing prion disease. The archaeal digoxin and rutile induced magnesium depletion can lead MPS deposition and produce EMF, CCP, MNG and Mucoid Angiopathy[2].

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The metal actinides provide radiolytic energy, catalysis for oligomer formation and provide a coordinating ion for metalloenzymes all important in abiogenesis[6]. The metal actinide surfaces would by surface metabolism generate acetate which could get converted to acetyl CoA and then to cholesterol which functions as the primal prebiotic molecule self organizing into self replicating supramolecular systems, the lipid organism[8,9,35]. Cholesterol by radiolysis by actinides would have formed PAH generating PAH aromatic organism[8]. Cholesterol radiolysis would generate pyruvate which would get converted to amino acids, sugars, nucleotides, porphyrins, fatty acids and TCA acids. Anastase and rutile surfaces can produce polymerization of amino acids, isoprenyl residues, PAH and nucleotides to generate

the initial lipid organism, PAH organism, prions and RNA viroids which would have symbiosed to generate the archaeal protocell. The archaea evolved into gram negative and gram positive bacteria with a mevalonate pathway which had a evolutionary advantage and the symbiosis of archaea with gram negative organism generated the eukaryotic cell[36]. The data supports the persistence of an actinide and cholesterol based shadow biosphere which throws light on the actinide based origin of life and cholesterol as the premier prebiotic molecule.

The archaea can synthesize magnetite by biomineralisation. The archaeal cholesterol catabolism can generate PAH. The archaea can exist as nanoarchaea and can have calcified nano forms. The actinidic magnetotactic nanoarchaea and its secreted PAH organisms are extremophiles and survive in the interstellar space and can contribute to the interstellar grains and magnetic fields which play a role in the formation of the galaxies and star systems[37]. The cosmic dust grains occupy the intergalactic space and are thought to be formed of magnetotactic bacteria identified according to their spectral signatures. According to the Hoyle's hypothesis, the cosmic dust magnetotactic bacteria play a role in the formation of the intergalactic magnetic field. A magnetic field equal in strength to about one millionth part of the magnetic field of earth exists throughout much of our galaxy. The magnetic files can be used to trace the spiral arms of the galaxy following a pattern of field lines that connect young stars and dust in which new stars are formed at a rapid rate. Studies have shown that a fraction of the dust particles have elongated shape similar to bacilli and they are systematically lined up in our galaxy. Moreover the direction of alignment is such that the long axes of the dust tend to be at right angles to the direction of the galactic magnetic field at every point. Magnetotactic bacteria have the property to affect the degree of alignment that is observed. The fact that the magnetotactic bacteria appear to be connected to the magnetic field lines that thread through the spiral arms of the galaxy connecting one region of star formation to another support a role for them in star formation and in the mass distribution and rotation of stars. The nutrient supply for a population of interstellar bacteria comes from mass flows out of supernovas populating the galaxy. Giants arising in the evolution of such stars experience a phenomenon in which material containing nitrogen, carbon monoxide, hydrogen, helium, water and trace elements essential for life flows continuously outward into space. The interstellar bacteria need liquid water. Water exists only as vapour or solid in the interstellar space and only through star formation leading to associated planets and cometary bodies can there be access to liquid water. To control conditions leading to star formation is

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of paramount importance in cosmic biology. The rate of star formation is controlled by two factors: Too high a rate of star formation produces a destructive effect of UV radiation and destroys cosmic biology. Star formation as stated before produces water crucial for bacterial growth. Cosmic biology of magnetotactic bacteria and star formation are thus closely interlinked. Systems like solar systems do not arise in random condensation of blobs of interstellar gas. Only by a rigorous control of rotation of various parts of the system would galaxies and solar system evolved. The key to maintaining control over rotation seems to lie in the intergalactic magnetic field as indeed the whole phenomena of star formation. The intergalactic magnetic fields owes its origin to the lining up of magnetotactic bacteria and the cosmic biology of interstellar bacteria can prosper only by maintaining a firm grip on the interstellar magnetic field and hence on the rate of star formation and type of star system produced. This points to a cosmic intelligence or brain capable of computation, analysis and exploration of the universe at large- of magnetotactic bacterial networks. The origin of life on earth according to the Hoyle's hypothesis would be by seeding of bacteria from the outer intergalactic space. Comets carrying microorganisms would have interacted with the earth. A thin skin of graphitized material around a single bacteria or clumps of bacteria can shield the interior from destruction by UV light. The sudden surge and diversification of species of plants and animals and their equally sudden extinction has seen from fossil records point to sporadic evolution produced by induction of fresh cometary genes with the arrival of each major new crop of comets[38,39]. The interstellar PAH aromatic organism is formed from nanoarchaeal cholesterol catabolism. The PAH and cholesterol are the interconvertible primal prebiotic molecules. PAH aromatic organism and nanoarchaeal magnetite can have a wave particle existence and bridge the world of bosons and fermions. The nanoarchaea can form biofilms and the PAH aromatic organism can form a molecular quantum computing cloud in the biofilm which forms a interstellar intelligence regulating the formation of star systems and galaxies. The magnetite loaded nanoarchaeal biofilms and PAH aromatic organism quantal computing cloud can bridge the wave particle world functioning as the anthropic observer sensing gravity which orchestrates the reduction of the quantal world of possibilities in to the macroscopic world. The actinide based nanoarchaea can regulate the earth's carbon cycle by methanogenesis, nitrogen cycle by ammonia oxidation and rain formation by contributing the seeding nucleus. The earth's temperature and global warming and cooling are regulated by nanoarchaeal synthesized PAH from cholesterol and methanogenesis. The increased nanoarchaeal growth in ocean beds and soil leads to increased methane production and movement of the earth's crust producing tsunamis and massive earthquake leading to

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catastrophic mass extinction[40]. The eternal nanoarchaea survive and start the cycle of evolution once more. The actinide based nanoarchaea regulates the human system and biological universe.

Table 1. Effect of rutile and antibiotics on cytochrome F420 and muramic acid

Group	CYT F420 % (Increase with Rutile)		CYT F420 % (Decrease with Doxy+Cipro)		Muramic acid % change (Increase with Rutile)		Muramic acid % change (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.48	0.15	18.24	0.66	4.45	0.14	18.25	0.72
Schizo	23.24	2.01	58.72	7.08	23.01	1.69	59.49	4.30
Seizure	23.46	1.87	59.27	8.86	22.67	2.29	57.69	5.29
AD	23.12	2.00	56.90	6.94	23.26	1.53	60.91	7.59
MS	22.12	1.81	61.33	9.82	22.83	1.78	59.84	7.62
NHL	22.79	2.13	55.90	7.29	22.84	1.42	66.07	3.78
DM	22.59	1.86	57.05	8.45	23.40	1.55	65.77	5.27
AIDS	22.29	1.66	59.02	7.50	23.23	1.97	65.89	5.05
CJD	22.06	1.61	57.81	6.04	23.46	1.91	61.56	4.61
Autism	21.68	1.90	57.93	9.64	22.61	1.42	64.48	6.90
EMF	22.70	1.87	60.46	8.06	23.73	1.38	65.20	6.20
F value	306.749		130.054		391.318		257.996	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 2. Effect of rutile and antibiotics on free RNA and DNA

Group	DNA % change (Increase with Rutile)		DNA % change (Decrease with Doxy+Cipro)		RNA % change (Increase with Rutile)		RNA % change (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.37	0.15	18.39	0.38	4.37	0.13	18.38	0.48
Schizo	23.28	1.70	61.41	3.36	23.59	1.83	65.69	3.94
Seizure	23.40	1.51	63.68	4.66	23.08	1.87	65.09	3.48
AD	23.52	1.65	64.15	4.60	23.29	1.92	65.39	3.95
MS	22.62	1.38	63.82	5.53	23.29	1.98	67.46	3.96
NHL	22.42	1.99	61.14	3.47	23.78	1.20	66.90	4.10
DM	23.01	1.67	65.35	3.56	23.33	1.86	66.46	3.65
AIDS	22.56	2.46	62.70	4.53	23.32	1.74	65.67	4.16
CJD	23.30	1.42	65.07	4.95	23.11	1.52	66.68	3.97
Autism	22.12	2.44	63.69	5.14	23.33	1.35	66.83	3.27
EMF	22.29	2.05	58.70	7.34	22.29	2.05	67.03	5.97
F value	337.577		356.621		427.828		654.453	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 3. Effect of rutile and antibiotics on HMG CoA reductase and ATP synthase

Group	HMG CoA R % change (Increase with Rutile)		HMG CoA R % change (Decrease with Doxy+Cipro)		ATP synthase % (Increase with Rutile)		ATP synthase % (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.30	0.20	18.35	0.35	4.40	0.11	18.78	0.11
Schizo	22.91	1.92	61.63	6.79	23.67	1.42	67.39	3.13
Seizure	23.09	1.69	61.62	8.69	23.09	1.90	66.15	4.09
AD	23.43	1.68	61.68	8.32	23.58	2.08	66.21	3.69
MS	23.14	1.85	59.76	4.82	23.52	1.76	67.05	3.00
NHL	22.28	1.76	61.88	6.21	24.01	1.17	66.66	3.84
DM	23.06	1.65	62.25	6.24	23.72	1.73	66.25	3.69
AIDS	22.86	2.58	66.53	5.59	23.15	1.62	66.48	4.17
CJD	22.38	2.38	60.65	5.27	23.00	1.64	66.67	4.21
Autism	22.72	1.89	64.51	5.73	22.60	1.64	66.86	4.21
EMF	22.92	1.48	61.91	7.56	23.37	1.31	63.97	3.62
F value	319.332		199.553		449.503		673.081	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 4. Effect of rutile and antibiotics on digoxin and bile acids

Group	Digoxin (ng/ml) (Increase with Rutile)		Digoxin (ng/ml) (Decrease with Doxy+Cipro)		Bile Acids % change (Increase with Rutile)		Bile Acids % change (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	0.11	0.00	0.054	0.003	4.29	0.18	18.15	0.58
Schizo	0.55	0.06	0.219	0.043	23.20	1.87	57.04	4.27
Seizure	0.51	0.05	0.199	0.027	22.61	2.22	66.62	4.99
AD	0.55	0.03	0.192	0.040	22.12	2.19	62.86	6.28
MS	0.52	0.03	0.214	0.032	21.95	2.11	65.46	5.79
NHL	0.54	0.04	0.210	0.042	22.98	2.19	64.96	5.64
DM	0.47	0.04	0.202	0.025	22.87	2.58	64.51	5.93
AIDS	0.56	0.05	0.220	0.052	22.29	1.47	64.35	5.58
CJD	0.53	0.06	0.212	0.045	23.30	1.88	62.49	7.26
Autism	0.53	0.08	0.205	0.041	22.21	2.04	63.84	6.16
EMF	0.51	0.05	0.213	0.033	23.41	1.41	58.70	7.34
F value	135.116		71.706		290.441		203.651	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 5. Effect of rutile and antibiotics on pyruvate and hexokinase

Group	Pyruvate % change (Increase with Rutile)		Pyruvate % change (Decrease with Doxy+Cipro)		Hexokinase % change (Increase with Rutile)		Hexokinase % change (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.34	0.21	18.43	0.82	4.21	0.16	18.56	0.76
Schizo	20.99	1.46	61.23	9.73	23.01	2.61	65.87	5.27
Seizure	20.94	1.54	62.76	8.52	23.33	1.79	62.50	5.56
AD	22.63	0.88	56.40	8.59	22.96	2.12	65.11	5.91
MS	21.59	1.23	60.28	9.22	22.81	1.91	63.47	5.81
NHL	21.19	1.61	58.57	7.47	22.53	2.41	64.29	5.44
DM	20.67	1.38	58.75	8.12	23.23	1.88	65.11	5.14
AIDS	21.21	2.36	58.73	8.10	21.11	2.25	64.20	5.38
CJD	21.07	1.79	63.90	7.13	22.47	2.17	65.97	4.62
Autism	21.91	1.71	58.45	6.66	22.88	1.87	65.45	5.08
EMF	22.29	2.05	62.37	5.05	21.66	1.94	67.03	5.97
F value	321.255		115.242		292.065		317.966	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 6. Effect of rutile and antibiotics on hydrogen peroxide and delta amino levulinic acid

Group	H_2O_2 % (Increase with Rutile)		H_2O_2 % (Decrease with Doxy+Cipro)		ALA % (Increase with Rutile)		ALA % (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.43	0.19	18.13	0.63	4.40	0.10	18.48	0.39
Schizo	22.50	1.66	60.21	7.42	22.52	1.90	66.39	4.20
Seizure	23.81	1.19	61.08	7.38	22.83	1.90	67.23	3.45
AD	22.65	2.48	60.19	6.98	23.67	1.68	66.50	3.58
MS	21.14	1.20	60.53	4.70	22.38	1.79	67.10	3.82
NHL	23.35	1.76	59.17	3.33	23.34	1.75	66.80	3.43
DM	23.27	1.53	58.91	6.09	22.87	1.84	66.31	3.68
AIDS	23.32	1.71	63.15	7.62	23.45	1.79	66.32	3.63
CJD	22.86	1.91	63.66	6.88	23.17	1.88	68.53	2.65
Autism	23.52	1.49	63.24	7.36	23.20	1.57	66.65	4.26
EMF	23.29	1.67	60.52	5.38	22.29	2.05	61.91	7.56
F value	380.721		171.228		372.716		556.411	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 7. Effect of rutile and antibiotics on PAH and serotonin

Group	PAH % (Increase with Rutile)		PAH % (Decrease with Doxy+Cipro)		5 HT % change (Increase with Rutile)		5 HT % change (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.41	0.15	18.63	0.12	4.34	0.15	18.24	0.37
Schizo	21.88	1.19	66.28	3.60	23.02	1.65	67.61	2.77
Seizure	22.29	1.33	65.38	3.62	22.13	2.14	66.26	3.93
AD	23.66	1.67	65.97	3.36	23.09	1.81	65.86	4.27
MS	22.92	2.14	67.54	3.65	21.93	2.29	63.70	5.63
NHL	23.81	1.90	66.95	3.67	23.12	1.71	65.12	5.58
DM	24.10	1.61	65.78	4.43	22.73	2.46	65.87	4.35
AIDS	23.43	1.57	66.30	3.57	22.98	1.50	65.13	4.87
CJD	23.70	1.75	68.06	3.52	23.81	1.49	64.89	6.01
Autism	22.76	2.20	67.63	3.52	22.79	2.20	64.26	6.02
EMF	22.28	1.52	64.05	2.79	22.82	1.56	64.61	4.95
F value	403.394		680.284		348.867		364.999	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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CHAPTER 16

EVIDENCE FOR OUT OF OCEANIA ORIGIN OF HOMO NEANDERTHALIS FROM THE LEMURIAN SUPERCONTINENT IN THE INDIAN OCEAN – THE ANTARCTICKOS – AN ANTARCTIC ORIGIN FOR RIG VEDA

Introduction

Actinidic beach sands have been postulated to play a pivotal role in abiogenesis. Chronic calcific pancreatitis (CCP), endomyocardial fibrosis (EMF), multinodular goitre (MNG) and mucoid angiopathy along with the root wilt disease of coconut is endemic to Kerala with its radioactive actinide beach sands. The Actinides like rutile producing intracellular magnesium deficiency due to actinide-magnesium exchange sites in the cell membrane has been implicated in the etiology of EMF[1-3]. Endogenous digoxin, a steroidal glycoside which functions as a membrane sodium-potassium ATPase inhibitor has also been related to its etiology of EMF, CCP, MNG and mucoid angiopathy[4]. Digoxin produces intracellular magnesium deficiency which results in acidic mucopolysaccharide accumulation of the vascular, cardiac and endocrine tissues contributing to the pathogenesis. Organisms like phytoplasmas and viroids have also been demonstrated to play a role in the etiology of root wilt disease of coconut which is co-endemic in Kerala[5,6]. The possibility of endogenous digoxin synthesis by actinide based primitive organism like archaea with a mevalonate pathway and cholesterol catabolism was considered[7-9]. The role of RNA viroids in the etiopathogenesis of EMF, CCP, MNG and mucoid angiopathy was also explored. Davies has put forward the concept of a shadow biosphere of organisms with alternate biochemistry present in earth itself[10]. An actinide dependent shadow biosphere of archaea and viroids in the above mentioned disease states is described[7].

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The group of diseases are seen in particular geographic areas of the world near the equator- South India, South America, South Africa and Australia.[1-3] These geographic areas are rich in placer deposits containing monazite, illmenite, rutile and thorium. These areas peninsular India, Africa, Australia, South America and Antartica formed part of one single pre-historic continent in Southern ocean, Antarctic ocean and Indian ocean called Lemuria by geologists. The evolution of primates and homo sapiens occurred in the rift valley of Africa part of this pre-historic continent. Metal actinides in beach sands have been postulated to play a role in abiogenesis. Actinide mineral like rutile, monazite and illmenite by surface metabolism would have contributed to abiogenesis. A hypothesis of cholesterol as the primal

prebiotic molecule synthesised on actinide surfaces with all other biomolecules arising from it and a self replicating cholesterol lipid organism as the initial life form is presented. Actinide dependent organism would have contributed to primate and human evolution. It is also possible that actinidic organisms would also have contributed to the destruction of the Lemurian supercontinent. This paper postulates that the co-existence of EMF, CCP and MNG in the above mentioned geographic areas points to the possibility of these land masses being joined together has one single land mass- Lemuria.

The postulated Lemurian part of the Indian sub-continent in South India is inhabited by the dominant Nair community which has a high incidence of EMF, CCP and MNG. The dominant Nair community also has a high incidence of autism. Neanderthal anthropometric features have been described in autism. Neanderthal metabolonomics have also been described in autism. The same anthropometric features are seen in EMF, CCP and MNG. It is possible that homo neanderthalis would have originated in the super continent which occupied the southern ocean. The island of Sumatra is home to another human species homo floresiensis which lived along with homo neanderthalis. This suggests an oceanic origin of homo neanderthalis in the supercontinent in the southern ocean. Recurrent Tsunamis would have forced the migration of homo neanderthalis to the Eurasian land mass especially to Harappa, Sumeria, Etruscia, Egypt and Basque country. There is a high incidence of Neanderthal genes in the Basque population. The language spoken in Harappa, Sumeria, Etruscia, Egypt and Basque country had a Dravidian sub-stratum. The population in these areas are matrilineal and female dominant. This suggests an out of oceania hypothesis for the origin of homo neanderthalis.

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Materials and Methods

Informed consent of the subjects and the approval of the ethics committee were obtained for the study. The following groups were included in the study:- endomyocardial fibrosis, chronic calcific pancreatitis, multinodular goitre and mucoid angiopathy. There were 10 patients in each group and each patient had an age and sex matched healthy control selected randomly from the general population. The blood samples were drawn in the fasting state before treatment was initiated. Plasma from fasting heparinised blood was used and the experimental protocol was as follows: (I) Plasma+phosphate buffered saline, (II) same as I+cholesterol substrate, (III) same as II+rutile 0.1 mg/ml, and (IV) same as II+ciprofloxacine and doxycycline each in a concentration of 1 mg/ml. Cholesterol substrate was prepared as

described by Richmond[11]. Aliquots were withdrawn at zero time immediately after mixing and after incubation at 37 ^{o}C for 1 hour. The following estimations were carried out:- Cytochrome F420, free RNA, free DNA, muramic acid, polycyclic aromatic hydrocarbon, hydrogen peroxide, serotonin, pyruvate, ammonia, glutamate, cytochrome C, hexokinase, ATP synthase, HMG CoA redutase, digoxin and urease[12-15]. Cytochrome F420 was estimated flourimetrically (excitation wavelength 420 nm and emission wavelength 520 nm). Polycyclic aromatic hydrocarbon was estimated by measuring hydrogen peroxide liberated by using glucose reagent. The statistical analysis was done by ANOVA.

Neanderthal anthropometric features were evaluated in the Nair community and in EMF, CCP, MNG and autism.

Results

The parameters checked as indicated above were:- cytochrome F420, free RNA, free DNA, muramic acid, polycyclic aromatic hydrocarbon, hydrogen peroxide, serotonin, pyruvate, ammonia, glutamate, cytochrome C, hexokinase, ATP synthase, HMG CoA reductase, digoxin and urease. Plasma of control subjects showed increased levels of the above mentioned parameters with after incubation for 1 hour and addition of cholesterol substrate resulted in still further significant increase in these parameters. The plasma of patients showed similar results but the extent of increase was more. The addition of antibiotics to the control plasma caused a decrease in all the parameters while addition of rutile increased their levels. The addition of antibiotics to the patient's plasma caused a decrease in all the parameters while addition of rutile increased their levels but the extent of change was more in patient's sera as compared to controls. The results are expressed in tables 1-7 as percentage change in the parameters after 1 hour incubation as compared to the values at zero time.

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The Nair community had a high prevalence of Neanderthal anthropometric features. Neanderthal anthropometric features were also dominant in autism, EMF, CCP and MNG.

Table 1. Effect of rutile and antibiotics on muramic acid and serotonin

Group	Muramic acid % (Increase without Doxy)		Muramic acid % (Decrease with Doxy)		5 HT % (Increase without Doxy)		5 HT % (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.41	0.15	18.63	0.12	4.34	0.15	18.24	0.37
Muc Angio	24.43	0.81	68.72	2.77	24.32	1.09	65.80	5.14
EMF	22.28	1.52	64.05	2.79	22.82	1.56	64.61	4.95
CCP	23.07	1.46	64.68	3.86	22.89	1.50	64.19	6.51
MNG	23.85	1.69	66.43	3.17	22.72	1.64	63.91	4.93
F value	403.394		680.284		348.867		364.999	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 2. Effect of rutile and antibiotics on free DNA and RNA

Group	DNA % change (Increase with Rutile)		DNA % change (Decrease with Doxy)		RNA % change (Increase with Rutile)		RNA % change (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.37	0.15	18.39	0.38	4.37	0.13	18.38	0.48
Muc Angio	22.27	1.49	63.99	4.03	22.27	1.49	69.25	2.33
EMF	22.29	2.05	58.70	7.34	22.29	2.05	67.03	5.97
CCP	21.19	2.18	61.63	7.68	21.19	2.18	62.99	5.47
MNG	22.93	2.08	63.49	5.01	23.19	1.74	65.68	4.06
F value	337.577		356.621		427.828		654.453	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 3. Effect of rutile and antibiotics on HMG CoA reductase and PAH

Group	HMG CoA R % change (Increase with Rutile)		HMG CoA R % change (Decrease with Doxy)		PAH % change (Increase with Rutile)		PAH % change (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.30	0.20	18.35	0.35	4.45	0.14	18.25	0.72
Muc Angio	24.44	0.90	59.90	4.74	23.90	1.36	63.29	6.86
EMF	22.92	1.48	61.91	7.56	23.73	1.38	65.20	6.20
CCP	23.27	1.96	63.09	9.21	22.85	1.71	66.14	3.58
MNG	23.65	1.88	64.78	6.62	23.79	1.19	64.24	3.96
F value	319.332		199.553		391.318		257.996	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 4. Effect of rutile and antibiotics on digoxin and urease

Group	**Digoxin** (ng/ml) (Increase with Rutile)		**Digoxin** (ng/ml) (Decrease with Doxy+Cipro)		**Urease % change** (Increase with Rutile)		**Urease % change** (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	0.11	0.00	0.054	0.003	4.29	0.18	18.15	0.58
Muc Angio	0.53	0.03	0.224	0.041	23.37	1.55	63.99	4.03
EMF	0.51	0.05	0.213	0.033	23.41	1.41	58.70	7.34
CCP	0.47	0.05	0.212	0.028	22.44	2.00	61.63	7.68
MNG	0.51	0.06	0.227	0.040	22.15	1.79	65.49	7.28
F value	135.116		71.706		290.441		203.651	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 5. Effect of rutile and antibiotics on pyruvate and hexokinase

Group	**Pyruvate % change** (Increase with Rutile)		**Pyruvate % change** (Decrease with Doxy)		**Hexokinase % change** (Increase with Rutile)		**Hexokinase % change** (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.34	0.21	18.43	0.82	4.21	0.16	18.56	0.76
Muc Angio	22.27	1.49	61.94	5.49	23.67	1.65	69.25	2.33
EMF	22.29	2.05	62.37	5.05	21.66	1.94	67.03	5.97
CCP	21.19	2.18	54.82	8.70	22.27	2.18	62.99	5.47
MNG	19.73	2.27	59.36	7.53	22.51	2.32	62.70	3.24
F value	321.255		115.242		292.065		317.966	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 6. Effect of rutile and antibiotics on hydrogen peroxide and delta amino levulinic acid

Group	**H_2O_2 %** (Increase with Rutile)		**H_2O_2 %** (Decrease with Doxy)		**ALA %** (Increase with Rutile)		**ALA %** (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.43	0.19	18.13	0.63	4.40	0.10	18.48	0.39
Muc Angio	23.64	1.50	60.44	6.83	22.27	1.49	59.90	4.74
EMF	23.29	1.67	60.52	5.38	22.29	2.05	61.91	7.56
CCP	23.38	1.79	57.37	7.45	21.19	2.18	63.09	9.21
MNG	22.00	1.77	61.39	7.47	22.71	1.82	66.13	3.83
F value	380.721		171.228		372.716		556.411	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 7. Effect of rutile and antibiotics on ATP synthase and cytochrome F 420

Group	ATP synthase % (Increase with Rutile)		ATP synthase % (Decrease with Doxy)		CYT F420 % (Increase with Rutile)		CYT F420 % (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.40	0.11	18.78	0.11	4.48	0.15	18.24	0.66
Muc Angio	23.45	1.52	67.05	4.84	23.72	1.76	58.92	5.46
EMF	23.37	1.31	63.97	3.62	22.70	1.87	60.46	8.06
CCP	22.53	1.92	66.31	3.10	21.31	1.37	57.32	8.41
MNG	23.39	1.14	68.11	3.02	22.17	2.01	65.15	6.46
F value	449.503		673.081		306.749		130.054	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Abbreviations

Muc Angio: Mucoid angiopathy
EMF: Endomyocardial fibrosis
CCP: Chronic calcific pancreatitis
MNG: Multinodular goiter

Table 8. Incidence of autism in Nair, autistic and non-Nair population

Groups	Autism	Percentage
Nair	68 cases	68
Non-Nair	32 cases	32
Total	100	

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Table 9. Anthropometric features in Nair, autistic and non-Nair population

Groups	Neanderthal Anthropometric	Total cases	Percentage
Nair	72 cases	100	72
Non-Nair	21 cases	100	21
Autism	81 cases	100	81

Table 10. Anthropometric features in EMF, CCP and MNG

Groups	Neanderthal Anthropometric	Total cases	Percentage
EMF	8 cases	10	80
CCP	6 cases	10	60
MNG	7 cases	10	70

Table 11. Incidence of EMF, CCP and MNG community-wise

Groups	Cases	Percentage
EMF	8/10 cases	80
CCP	7/10 cases	70
MNG	9/10 cases	90

(Nair population is 7% of Kerala population)

Discussion

Neanderthal anthropometric features were seen in autism, EMF, CCP and MNG which were more common in Nair community dominating the part of the Indian subcontinent derived from Lemuria. This suggests a Lemurian supercontinent origin of the homo neanderthalis. The homo neanderthalis shared the Lemurian super continent with another human species called homo floresiensis. Homo floresiensis has been detected in the island of Sumatra in Indonesia. The Nair community dominates the Kerala coast of South India. The Nair community is matrilineal and Dravidian. There are other civilizations speaking the Dravidian language important in human evolution like Harappa, Sumeria, Etruscia, Egypt and Basque country. These civilizations may have a Neanderthal substratum. They would have migrated to the Eurasian land mass from the Lemurian supercontinent when it was destroyed by tsunamis in the Indian ocean. The tsunamis would have evolved due to archaeal overgrowth in the southern ocean during the ice age. The archaea are extremophiles. The archaeal overgrowth in the Indian ocean bed in the ice age would have released methane. This would have triggered movement of the earth crust, earthquakes and Tsunamis. The same endosymbiotic archaeal growth would have led to evolution of homo neanderthalis. The endosymbiotic archaeal metabolism in primates would have generated the species homo neanderthalis. The homo neanderthalis contributed to the civilizations of Harappa, Sumeria, Etruscia, Egypt, basque and celts. They were all matrilineal with gender equality. They had a symbolic language predominantly non-vocal. Music, dance and painting as a form of communication were prevalent in these societies. This is exemplified by the Harappan language dominated by Harappan seals and the Egyptian hieroglyphics The concept of spirituality evolved in these societies including the worship of the mother goddess.

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There was increase in cytochrome F420 indicating archaeal growth in endomyocardial fibrosis, chronic calcific pancreatitis, multinodular goitre and mucoid angiopathy. The archaea can synthesize and use cholesterol as a carbon and energy source[16,17]. The archaeal

origin of the enzyme activities was indicated by antibiotic induced suppression. The study indicates the presence of actinide based archaea with an alternate actinide based enzymes or metalloenzymes in the system as indicated by rutile induced increase in enzyme activities[18]. There was also an increase in archaeal HMG CoA reductase activity indicating increased cholesterol synthesis by the archaeal mevalonate pathway. The archaeal beta hydroxyl steroid dehydrogenase activity indicating digoxin synthesis and archaeal cholesterol hydroxylase activity indicating bile acid synthesis were increased[8]. The archaeal cholesterol oxidase activity was increased resulting in generation of pyruvate and hydrogen peroxide[17]. The pyruvate gets converted to glutamate and ammonia by the GABA shunt pathway. The archaeal aromatization of cholesterol generating PAH, serotonin and dopamine was also detected[19]. The archaeal glycolytic hexokinase activity and archaeal extracellular ATP synthase activity were increased. There was an increase in free RNA indicating self replicating RNA viroids and free DNA indicating generation of viroid complementary DNA strands by archaeal reverse transcriptase activity. The actinides modulate RNA folding and catalyse its ribozymal action. Digoxin can cut and paste the viroidal strands by modulating RNA splicing generating RNA viroidal diversity. The viroids are evolutionarily escaped archaeal group I introns which have retrotransposition and self splicing qualities[20]. Archaeal pyruvate can produce histone deacetylase inhibition resulting in endogenous retroviral (HERV) reverse transcriptase and integrase expression. This can integrate the RNA viroidal complementary DNA into the noncoding region of eukaryotic non coding DNA using HERV integrase as has been described for borna and ebola viruses[21]. The noncoding DNA is lengthened by integrating RNA viroidal complementary DNA with the integration going on as a continuing event. The archaea genome can also get integrated into human genome using integrase as has been described for trypanosomes[22]. The integrated viroids and archaea can undergo vertical transmission and can exist as genomic parasites[21,22]. This increases the length and alters the grammar of the noncoding region producing memes or memory of acquired characters[23]. The viroidal complementary DNA can function as jumping genes producing a dynamic genome and changing DNA sequences. The RNA viroids can regulate mrna function by RNA interference[20]. The phenomena of RNA interference can modulate euchromatin/heterochromatin expression. RNA viroidal mRNA interference plays a role in the pathogenesis of endomyocardial fibrosis, chronic calcific pancreatitis, multinodular goitre and mucoid angiopathy. The viroidal RNA modulation of T cell and B cell function by mRNA interference can lead to immune activation. Monocytic infiltration of the vascular wall, cardiac and endocrine tissue can produce reactive connective tissue macromolecular

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deposition contributing to EMF, CCP, MNG and mucoid angiopathy. The viroidal RNA mediated mRNA interference can also inhibit insulin signalling and secretion leading onto CCP. The viroid RNA can inhibit thyroid hormone secretion and action by mRNA interference leading to increased TSH secretion and multinodular goitre.

The presence of muramic acid, HMG CoA reductase and cholesterol oxidase activity inhibited by antibiotics indicates the presence of bacteria with mevalonate pathway. The bacterial with mevalonate pathway include streptococcus, staphylococcus, actinomycetes, listeria, coxiella and borrelia[24]. The bacteria and archaea with mevalonate pathway and cholesterol catabolism had a evolutionarily advantage and constitutes the isoprenoidal clade organism with the archaea evolving into mevalonate pathway gram positive and gram negative organism through horizontal gene transfer of viroidal and virus genes[25]. The isoprenoidal clade prokaryotes develop into other groups of prokaryotes via viroidal/virus as well as eukaryotic horizontal gene transfer producing bacterial speciation[26]. The RNA viroids and its complementary DNA developed into cholesterol enveloped RNA and DNA viruses like herpes, retrovirus, influenza virus, borna virus, cytomegalo virus and Ebstein Barr virus by recombining with eukaryotic and human genes resulting in viral speciation. Bacterial and viral species are ill defined and fuzzy with all of them forming one common genetic pool with frequent horizontal gene transfer and recombination. Thus the multi and unicellular eukaryote with its genes serves the purpose of prokaryotic and viral speciation. The multicellular eukaryote developed so that their endosymbiotic archaeal colonies could survive and forage better. The multicellular eukaryotes are like bacterial biofilms. The archaea and bacteria with a mevalonate pathway uses the extracellular RNA viroids and DNA viroids for quorum sensing and in the generation of symbiotic biofilm like structures which develop into multicellular eukaryotes[27,28]. The endosymbiotic archaea and bacteria with mevalonate pathway still uses the RNA viroids and DNA viroids for the regulation of muticellular eukaryote. Pollution is induced by the primitive nanoarchaea and mevalonate pathway bacteria synthesised PAH and methane leading on to redox stress. Redox stress leads to sodium potassium ATPase inhibition, inward movement of plasma membrane cholesterol, defective SREBP sensing, increased cholesterol synthesis and nanoarchaeal/mevalonate pathway bacterial growth[29]. Redox stress leads on to viroidal and archaeal multiplication. Redox stress can also lead to HERV reverse transcriptase and integrase expression. The noncoding DNA is formed of integrating RNA viroidal complementary DNA and archaea with the integration going on as a continuing event. The change in the length and grammar of

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the noncoding region produces eukaryotic speciation and individuality[30]. Thus actinidic nanoarchaea would have contributed to the evolution of the multicellular eukaryote, primates and humans. Changes in the length of noncoding region especially due to integration of viroid complementary DNA and archaea and the resulting jumping genes leads to new DNA sequences possibly contributing to EMF, CCP, MNG and mucoid angiopathy[31]. The integrated viroidal, archaeal and mevalonate pathway bacterial sequences can undergo vertical transmission and can exist as genomic parasites. The genomic integrated archaea, mevalonate pathway bacteria and viroids form a genomic reserve of bacteria and viruses which can recombine with human and eukaryotic genes producing bacterial and viral speciation. Archaea and mevalonate pathway bacteria can lead onto EMF, CCP, MNG and mucoid angiopathy. The persistent symbiosis leads to reparative connective tissue macromolecular deposition of acidic mucopolysaccharides, glycoproteins, collagen and elastin leading to fibrotic changes in the heart, vessel wall, thyroid and pancreas contributing to EMF, CCP, MNG and mucoid angiopathy[4,32]. The integration of nanoarchaea, mevalonate pathway prokaryotes and viroids in to the eukaryotic and human genome produces a chimera which can multiply producing biofilm like multicellular structures having a mixed archaeal, viroidal, prokaryotic and eukaryotic characters which is a regression from the multicellular eukaryotic tissue. This results in a new metabolic and immune phenotype or microchimeras leading on to human diseases like EMF, CCP, MNG and mucoid angiopathy with a predilection to develop malignancy. Microchimeras can lead to cellular polyploidy important in malignant transformation and induction of carcinoma of thyroid and pancreas. The growth of archaea in the vascular, cardiac and endocrine tissues can result in calcification. The archaea can form calcified nanoarchaeal structures which can exist as colonies in slime. The archaea can undergo magnetite and calcium carbonate mineralization and can exist as calcified nanoforms[33]. The calcified nanoarchaea can contribute to the tissue calcification noted in CCP, MNG and mucoid angiopathy.

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Archaea and RNA viroid can bind the TLR receptor induce NFKB producing immune activation and cytokine TNF alpha secretion. The archaeal DXP and mevalonate pathway metabolites can bind γδ TCR and digoxin induced calcium signaling can activate NFKB producing chronic immune activation[4,34]. The archaea and viroid can induce chronic immune activation and generation of superantigens. The archaea and viroid induced chronic immune activation can lead to monocyte infiltration of the vessel wall, cardiac and endocrine tissues leading on to reparative connective tissue macromolecular deposition. Immune activation

results in induction of NADPH oxidase which generates hydrogen peroxide. Cholesterol oxidase activity also generates hydrogen peroxide. Hydrogen peroxide can produce tissue injury in MNG, CCP, EMF and mucoid angiopathy contributing to reparative connective tissue macromolecular deposition. Immune activation can also produce insulin resistance. TNF alpha produced by chronic immune activation can modulate the insulin receptor producing insulin resistance[35]. Chronic immune activation and cholesterol oxidase generated hydrogen peroxide can induce neutral sphingomyelinase generating ceramide producing insulin resistance[36]. This can contribute to chronic calcific pancreatitis. Immune activation and NFKB induction can suppress the thyroid hormone receptor resulting in hypothyroidism and increased TSH levels contributing to thyroid gland enlargement and multinodular goitre. Immune activation and NFKB induction can suppress the nuclear receptors LXR, PXR and FXR. FXR suppression can also lead to insulin resistance as well as increased connective tissue MPS deposition in vessel wall, cardiac tissue and endocrine tissue. LXR suppression by NFKB stimulates HMG CoA reductase activity and suppresses cholesterol 7 alpha hydroxylase activity[37]. This stimulates cholesterol synthesis and inhibits its degradation via the bile acid pathway. PXR suppression by NFKB prevents cholesterol detoxification via the bile acid shunt pathway[38]. Thus LXR and PXR suppression by NFKB produces acute cholesterol toxicity. The increased cholesterol in the system leads to still further archaeal multiplication and growth as they depend on cholesterol as a carbon and energy source.

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Archaea, viroids and digoxin can induce the host AKT PI3K, AMPK, HIF alpha and NFKB producing the Warburg metabolic phenotype[39]. The increased glycolytic hexokinase activity, decrease in blood ATP, leakage of cytochrome C, increase in serum pyruvate and decrease in acetyl CoA indicates the generation of the Warburg phenotype. There is induction of glycolysis, inhibition of PDH activity and mitochondrial dysfunction resulting in inefficient energetics. Mitochondrial dysfunction owing to the Warburg's phenotype can contribute to ineffective glucose utilisation and CCP. The accumulated pyruvate enters the gaba shunt pathway and is converted to citrate which is acted upon by citrate lyase and converted to acetyl CoA, used for cholesterol synthesis[39]. The increased cholesterol substrate also leads to increased archaeal growth and digoxin synthesis due to metabolic channeling to the mevalonate pathway. The Warburg phenotype leads to increased lipid synthesis and defective beta oxidation of fatty acids. The myocardium depends on fatty acids beta oxidation for energetics. The defective beta oxidation of fatty acids leads to myocardial dysfunction and EMF. The Warburg phenotype leads to upregulated glycolysis and increase in the metabolite

fructose 1,6 diphosphate which is channelled to the pentose phosphate pathway. This can generate UDP sugars used for mucopolysaccharide synthesis. This results in acidic MPS deposition in the tissues leading onto EMF, CCP, MNG and mucoid angiopathy. The pyruvate can be converted to glutamate and ammonia which is oxidised by archaea for energy needs. Ammonia can stimulate membrane sodium-potassium ATPase, increase ATP utilisation and produce mitochondrial transmembrane potential changes leading to mitochondrial dysfunction. This causes defective glucose utilisation contributing to CCP. Archaeal urease can convert urea to ammonia and thiocyanate. Increase cyanide load in the system can lead to mitochondrial dysfunction[3]. Cyanide related mitochondrial dysfunction can produce EMF, CCP and MNG. It produces defective cardiac function, decreased glucose utilisation and impaired iodide transport into the thyroid follicular cells. The Warburg phenotype can also lead onto malignant transformation. The upregulated glycolysis results in increased mitochondrial PT pore hexokinase and cell proliferation producing carcinoma of thyroid and pancreas.

Digoxin can produce sodium-potassium ATPase inhibition and inward movement of plasma membrane cholesterol. This produces defective SREBP sensing, increased HMG CoA reductase activity and cholesterol synthesis[29]. The digoxin induced inward movement of plasma membrane cholesterol can alter membrane cholesterol/sphingomyelin ratio producing modified lipid microdomains[40]. The digoxin induced lipid microdomain modulation can regulate the GPCR couple adrenaline, noradrenaline, glucagon and neuropeptide receptors as well as protein tyrosine kinase linked insulin receptor. This can lead onto CCP. The digoxin mediated inhibition of nuclear membrane sodium-potassium ATPase can modulate nuclear membrane lipid microdomains and thyroxine DNA receptor function. This can lead onto hypothyroidism, increased TSH levels and thyroid gland enlargement contributing to MNG. Digoxin can produce intracellular hypercalcemia and hypomagnesemia. This can lead on to vasospasm and thrombosis. Intracellular hypercalcemia can activate the G-protein coupled thrombin receptor and PAF receptor producing thrombosis. Intracellular magnesium deficiency can lead onto increased thrombin and ADP/collagen induced platelet aggregation. This leads onto the thrombotic state in mucoid angiopathy. The decreased intracellular magnesium can produce ATP synthase inhibition and the increased intracellular calcium can produce mitochondrial PT pore dysfunction. Mitochondrial dysfunction can contribute to decreased glucose utilisation in CCP and myocardial dysfunction in EMF. Digoxin can produce sodium-potassium ATPase inhibition and intracellular hypomagnesemia. The

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increased tissue rutile load can lead to rutile-magnesium exchange leading onto intracellular hypomagnesemia. Hypomagnesemia can lead onto upregulated connective tissue macromolecular synthesis contributing to MNG, CCP, EMF and mucoid angiopathy. Acidic MPS deposition in the vessel wall leads to a hose pipe narrowing of the entire vascular tree leading onto mucoid angiopathy. Acidic MPS, collagen and elastin deposition of the heart leads to EMF. Hyperdigoxinemia is important in the pathogenesis of EMF, CCP, MNG and mucoid angiopathy. Digoxin induced sodium-potassium ATPase inhibition results in an ATP sparing effect[41]. Eighty percent of the ATP generated is used to run the sodium-potassium ATPase pump. The digoxin inhibition of the sodium-potassium ATPase spares this ATP which is then used for lipid and cholesterol synthesis. Fat also fuels insulin resistance by binding to the toll receptor and producing immune activation and immune infiltration of the adipose tissue. Digoxin can also increase lymphocytic intracellular calcium which leads on to induction of NFKB and immune activation[4]. The archaeal cholesterol catabolism can deplete the lymphocytic cell membranes of cholesterol resulting in alteration of lymphocytic cell membrane microdomains related receptors producing immune activation, monocytic infiltration and reparative connective tissue macromolecular deposition.

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NMDA can be activated by digoxin induced calcium oscillations, PAH and viroid induced RNA interference[4]. The cholesterol ring oxidase generated pyruvate can be converted by the GABA shunt pathway to glutamate. Glutamatergic transmission can lead to immune activation. Immune activation can lead to reparative connective tissue macromolecular deposition in EMF, CCP, MNG and mucoid angiopathy. The cholesterol aromatase generated serotonin is well known to produce connective tissue macromolecule especially collagen deposition producing the fibrotic changes in EMF, mucoid angiopathy, MNG and CCP. The archaeal cholesterol aromatase can generate PAH[19]. The PAH can also lead to insulin resistance and CCP. PAH can also inhibit thyroid hormone receptor function contributing to hypothyroidism, increased TSH, thyroid enlargement and MNG. Particulate pollution has been related to vascular thrombosis and can lead to mucoid angiopathy. PAH particles are also known to produce myocardial dysfunction. Thus the actinide, viroid and mevalonate pathway bacteria induced metabolic, genetic, immune and neuronal transmission changes can lead onto endemic EMF, CCP, MNG and mucoid angiopathy. The term archaea and viroid induced endemic cardiovascular and endocrine mucopolysaccharidoses can be used to describe this entity.

The metal actinides provide radiolytic energy, catalysis for oligomer formation and provide a coordinating ion for metalloenzymes all important in abiogenesis[6]. The metal actinide surfaces would by surface metabolism generate acetate which could get converted to acetyl CoA and then to cholesterol which functions as the primal prebiotic molecule self organizing into self replicating supramolecular systems, the lipid organism[42]. Cholesterol by radiolysis by actinides would have formed PAH generating PAH aromatic organism[8]. Cholesterol radiolysis would generate pyruvate which would get converted to amino acids, sugars, nucleotides, porphyrins, fatty acids and TCA acids. Anastase and rutile surfaces can produce polymerization of amino acids, isoprenyl residues, PAH and nucleotides to generate the initial lipid organism, PAH organism, prions and RNA viroids which would have symbiosed to generate the archaeal protocell. The archaea evolved into gram negative and gram positive bacteria with a mevalonate pathway which had a evolutionary advantage and the symbiosis of archaea with gram negative organism generated the eukaryotic cell[43]. The data supports the persistence of an actinide and cholesterol based shadow biosphere which throws light on the actinide based origin of life and cholesterol as the premier prebiotic molecule. The presence of placer deposits and mineral sands containing monazite, illmenite, rutile and thorium in the Lemurian supercontinent would have made it the ideal place for the primitive cell, nanoarchaea, eukaryote, multicellular eukaryote, primates and humans to evolve. Anthropological studies have provided evidence for the evolution of primates and homosapiens in the rift valley of Kenya part of the prehistoric Lemurian continent.

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The archaea can synthesise magnetite by biomineralization. The archaeal cholesterol catabolism can generate PAH. The archaea can exist as nanoarchaea and can have calcified nano forms. The actinidic magnetotactic nanoarchaea and its secreted PAH organisms are extremophiles and survive in the interstellar space and can contribute to the interstellar grains and magnetic fields which play a role in the formation of the galaxies and star systems[44]. The cosmic dust grains occupy the intergalactic space and are thought to be formed of magnetotactic bacteria identified according to their spectral signatures. According to the Hoyle's hypothesis, the cosmic dust magnetotactic bacteria play a role in the formation of the intergalactic magnetic field. A magnetic field equal in strength to about one millionth part of the magnetic field of earth exists throughout much of our galaxy. The magnetic files can be used to trace the spiral arms of the galaxy following a pattern of field lines that connect young stars and dust in which new stars are formed at a rapid rate. Studies have shown that a fraction of the dust particles have elongated shape similar to bacilli and they are

systematically lined up in our galaxy. Moreover the direction of alignment is such that the long axes of the dust tend to be at right angles to the direction of the galactic magnetic field at every point. Magnetotactic bacteria have the property to affect the degree of alignment that is observed. The fact that the magnetotactic bacteria appear to be connected to the magnetic field lines that thread through the spiral arms of the galaxy connecting one region of star formation to another support a role for them in star formation and in the mass distribution and rotation of stars. The nutrient supply for a population of interstellar bacteria comes from mass flows out of supernovas populating the galaxy. Giants arising in the evolution of such stars experience a phenomenon in which material containing nitrogen, carbon monoxide, hydrogen, helium, water and trace elements essential for life flows continuously outward into space. The interstellar bacteria need liquid water. Water exists only as vapour or solid in the interstellar space and only through star formation leading to associated planets and cometary bodies can there be access to liquid water. To control conditions leading to star formation is of paramount importance in cosmic biology. The rate of star formation is controlled by two factors: Too high a rate of star formation produces a destructive effect of UV radiation and destroys cosmic biology. Star formation as stated before produces water crucial for bacterial growth. Cosmic biology of magnetotactic bacteria and star formation are thus closely interlinked. Systems like solar systems do not arise in random condensation of blobs of interstellar gas. Only by a rigorous control of rotation of various parts of the system would galaxies and solar system evolved. The key to maintaining control over rotation seems to lie in the intergalactic magnetic field as indeed the whole phenomena of star formation. The intergalactic magnetic fields owes its origin to the lining up of magnetotactic bacteria and the cosmic biology of interstellar bacteria can prosper only by maintaining a firm grip on the interstellar magnetic field and hence on the rate of star formation and type of star system produced. This points to a cosmic intelligence or brain capable of computation, analysis and exploration of the universe at large- of magnetotactic bacterial networks. The origin of life on earth according to the Hoyle's hypothesis would be by seeding of bacteria from the outer intergalactic space. Comets carrying microorganisms would have interacted with the earth. A thin skin of graphitized material around a single bacteria or clumps of bacteria can shield the interior from destruction by UV light. The sudden surge and diversification of species of plants and animals and their equally sudden extinction has seen from fossil records point to sporadic evolution produced by induction of fresh cometary genes with the arrival of each major new crop of comets[45,46]. The interstellar PAH aromatic organism is formed from nanoarchaeal cholesterol catabolism. The PAH and cholesterol are the interconvertable

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primal prebiotic molecules. PAH aromatic organism and nanoarchaeal magnetite can have a wave particle existence and bridge the world of bosons and fermions. The nanoarchaea can form biofilms and the PAH aromatic organism can form a molecular quantum computing cloud in the biofilm which forms a interstellar intelligence regulating the formation of star systems and galaxies.The magnetite loaded nanoarchaeal biofilms and PAH aromatic organism quantal computing cloud can bridge the wave particle world functioning as the anthropic observer sensing gravity which orchestrates the reduction of the quantal world of possibilities in to the macroscopic world. The actinide based nanoarchaea can regulate the earth's carbon cycle by methanogenesis, nitrogen cycle by ammonia oxidation and rain formation by contributing the seeding nucleus. The earth's temperature and global warming and cooling are regulated by nanoarchaeal synthesised PAH from cholesterol and methanogenesis. The increased nanoarchaeal growth in ocean beds and soil leads to increased methane production and movement of the earth's crust producing tsunamis and massive earthquake leading to catastrophic mass extinction[47]. This nanoarchaeal growth in the Southern ocean and Indian ocean bed due to global warming induced by civilizational progress and human activity would have led to methane burps in the ocean bed contributing to massive earthquakes leading onto Tsunamis. This would have led to catastrophic destruction of the Lemurian supercontinent. The migration of the Lemurian survivors into the Indian sub-continent Indus valley, the Nile valley and the Mesopotamian valley would have contributed to the origin of the Harappan, Sumerian and Egyptian civilization which have all evolved during the same period of human history.[48,49] The eternal nanoarchaea survive and start the cycle of evolution once more. The actinide based nanoarchaea regulates the human system and biological universe.

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The coexistence of EMF, CCP and MNG in South India, South Africa, Australia and South America is thus an indirect evidence for the existence of the Lemurian supercontinent containing these land masses. The actinidic nanoarcheal growth would have led to methane burps in the ocean bed contributing to earthquakes and Tsunamis producing extinction of the Lemurian supercontinent. It also supports the abiogenesis on radioactive actinidic beach sands through the process of surface metabolism. This gives support to the role of actinidic archaea as the third element that controls life and its role in the evolution of the multicellular eukaryote, primates and humans. Civilization and humans would have evolved in the placer deposits and actinidic sand rich pre-historic Lemurian supercontinent in the Indian and Southern ocean.[48,49]

The increased incidence of EMF, CCP, MNG and autism in the Nair community and the increased prevalence of the Neanderthal anthropometric features in the Nair community and in EMF, CCP, MNG and autism suggests a Lemurian origin for homo neanderthalis. This suggests an out of oceania hypothesis for homo neanderthalis with later migration to the Eurasian land mass consequent to destruction of the supercontinent by Tsunamis. The Tsunamis would have been precipitated by increased archaeal growth in the oceanic beds and movements in the earth crust produced by released methane. The homo neanderthalis also originated due to increased endosymbiotic actinidic archaeal growth.

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CHAPTER 17

THE NEANDERTHALS AND PROTO-DRAVIDIAN CIVILIZATION- AN OCEANIC ORIGIN FOR RIG VEDA – THE ANTARCTIC AND LEMURIAN ORIGIN OF THE RIG VEDIC SANSKRIT CULTURE OF HARAPPA-MOHENJADARO

The increased prevalence of autism in the Dravidian Nair community has been documented. Autistic children and the Nair population tend to have Neanderthal anthropometric features. There is increased incidence of EMF, CCP, MNG and mucoid angiopathy in the population inhabiting the land masses arising out of the Lemurian supercontinent in the Indian ocean. The South Indian land mass was a part of the Lemurian supercontinent in the Indian and Southern ocean which was destroyed by giant Tsunamis and the population inhabiting the supercontinent are represented by the Dravidian population of South India. The population that migrated from the Lemurian land mass travelled over to the Eurasian land mass creating the urban civilizations of Harappa-Mohenjadaro, Sumeria, Etruscia, basque, celts and Egypt. All these ancient civilizations were co-terminus and existed at the same point of time at least 10,000 years BC. The Harappa-Mohenjadaro civilization is considered to be Dravidian and the Harappan script has been decoded and found to be Akkadian-Dravidian. All the Harappa-Mohenjadaro, Sumeria, Etruscia, basque, celts and Egypt civilizations spoke the Akkadian-Dravidian language. As has been demonstrated the Dravidian Nair community has Neanderthal anthropometric features and Neanderthal metabolonomics. All the above mentioned civilizations have a possible Neanderthal origin. The Dravidian community is postulated to have evolved in the Lemurian continent.

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The homo neanderthalis would have evolved in the Lemurian supercontinent in the Indian and Southern ocean during periods of extremes of weather. During the ice age and periods of global warming, there is increasing growth of the extremophilic archaea in the human body and oceanic ecosystems. The increasing growth of archaea in the ocean bed leads to release of methane which triggers catastrophic earthquakes in the oceans. This precipitates tsunamis in the Indian ocean and one of them would have destroyed the Lemurian land mass triggering a mass exodus. This would be the basis of the flood myths in history. The increasing growth of cholesterol catabolizing archaea in the primates leads to evolution of homo neanderthalis. The archaea binds to the toll receptor inducing HIF alpha suppressing mitochondrial function and increasing glycolysis. The archaeal catabolism of cholesterol produces cholesterol depletion and bile acid deficiency. Both these factors induce

the metabolic syndrome and insulin resistance leading to trunkal obesity and the Neanderthal phenotype. The low cholesterol levels leads to vitamin D deficiency and rickets generating the Neanderthal phenotype with the characteristic anthropometric features. The cholesterol catabolism and ring oxidation leads to generation of pyruvate which is transferred to the GABA shunt pathway. This generates glycine and succinyl CoA synthesizing porphyrins which are dipolar molecules. The cholesterol catabolism generates digoxin which inhibits membrane sodium potassium ATPase and produces a Bose-Einstein condensate via the dipolar porphyrins inducing quantal perception. The digoxin induced membrane sodium potassium ATPase inhibition depletes the cell of magnesium inhibiting reverse transcriptase activity and HERV generation. The HERV produces genomic flexibility and lack of it leads to prefrontal cortex atrophy. The porphyrin induced quantal perception of low level EMF also leading to prefrontal cortex atrophy. There is cerebellar dominance in the Neanderthal phenotype leading onto increased intuitiveness, quantal perception, spirituality, community spirit, compassion, equality and feeling of oneness with the environment. Thus the Neanderthal phenotype would have evolved in the Lemurian continent with its attached antartic land mass in the ice age. The Neanderthals would evolve due to similar mechanism during period of global warming. The evolution near the antartic part of the Lemuria and the decreasing availability of sunlight would have contributed to the light skin colour of Neanderthals. The Neanderthals following destruction of the Lemurian supercontinent would have migrated to Harappa-Mohenjadaro, Sumeria, Etruscia, basque, celts and Egypt creating a global Dravidian civilization. This civilization had a language, was spiritual, had gender equality and social equality. It was also a creative urban civilization in Harappa-Mohenjadaro, Sumeria, Etruscia, basque, celts and Egypt.

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The Harappa-Mohenjadaro, Sumeria, Etruscia, basque, celts and Egypt are essentially Dravidian and neanderthalic. The Harappan civilization was thus similarly neanderthalic and Dravidian. The initial inhabitants of Harappa were the Asuras and they are the Dravidian Neanderthals. The Rig veda had a Harappan origin. The principal God the Rigveda is Varuna- the God of the Oceans. Such a concept would have evolved only in a land mass surrounded by oceans and in ocean travelers suggesting a neanderthalic Dravidian origin of Rigveda. The Indus script has been deciphered and is supposed to be logographic and of Akkadian-Dravidian origin. The Harappan civilization had thus a language, Rigvedic religion, laws and was urbanized. The Harappan civilization originated in and was made up of Neanderthal Dravidians migrating from Lemuria destroyed by Tsunamis. It was a sister

civilization to the other neanderthalic Dravidian civilizations of Sumeria, Etruscia, basque, celts and Egypt. It was part of the global Dravidian civilization.

The Rigveda includes concepts of battle between asuric neanderthalic Dravidians of Harappa and the invading homo sapien Devas. The homo sapien Devas had a different brain structure with predominant prefrontal lobe and smaller cerebellum. They evolved out of Africa and HERV generation led to a dynamic large prefrontal cortex. They were different phenotypically from the asuric Dravidian Neanderthals. The asuric Dravidian Neanderthals were cultured with language, religion, laws and social organization. The asuric Dravidian Neanderthals were matrilineal. They were more gender-equal with alternate modes of sexual behaviour. The asuric Dravidian Neanderthals were social equal with a primitive type of communism. The homo sapien Devas did not have a language, laws or religion and were relatively uncivilized. They were more patriarchial and male dominant. The homo sapien Deva invasion of the neanderthalic Harappan society led to the generation of Neanderthal hybrids and the hybrids got their religion and language as well as civilized behaviour from the neanderthalic Harappan Dravidians. The basis of human creativity can be related to this interaction between the Dravidian asuric Neanderthals and the homo sapien Devas. The Rigveda is basically of Dravidian neanderthalic origin. The initial global language was Akkadian-Dravidian. The Sanskrit language is a modification of the Akkadian-Dravidian script. The homo sapien Deva invasion led to the collapse of the global Dravidian civilization of Harappa-Mohenjadaro, Sumeria, Etruscia, basque, celts and Egypt. The great religions of the world the Judaeo-Christianity, Muslim and Hindu are basically Dravidian Neanderthal and Semitic. The Dravidian Neanderthal community migrating out of Lemuria was the basis of the Semitic community and the Semitic religions of the world. The neanderthalic brain was attuned to quantal perception and spirituality.

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In the present situation of global warming there is an increased growth of archaea in the human system and neanderthalisation of humans. The Neanderthals have returned and the human brain is becoming neanderthalic in behavior and function. This is responsible for the rising tide of autism, schizophrenia and metabolic syndrome X in the world.

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CHAPTER 18

THE HOMO NEANDERTHALIS AND THE DRAVIDIANS – A COMMON ORIGIN AND RELATION TO HARAPPAN CIVILIZATION AND VEDAS

Introduction

The postulated lemurian part of the Indian sub-continent in South India is inhabited by the dominant Nair community. The dominant Nair community also has a high incidence of autism. Neanderthal anthropometric features have been described in autism. Neanderthal metabolonomics have also been described in autism. It is possible that homo neanderthalis would have originated in the super continent which occupied the southern ocean. The island of Sumatra is home to another human species homo floresiensis which lived along with homo neanderthalis. This suggests an oceanic origin of homo neanderthalis in the supercontinent in the southern ocean. Recurrent Tsunamis would have forced the migration of homo neanderthalis to the Eurasian land mass especially to Harappa, Sumeria, Etruscia, Egypt and Basque country. There is a high incidence of Neanderthal genes in the Basque population. The language spoken in Harappa, Sumeria, Etruscia, Egypt and Basque country had a Dravidian substratum. The population in these areas is matrilineal and female dominant. This suggests an out of Oceania hypothesis for the origin of homo neanderthalis.[1-13]

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Materials and Methods

Neanderthal anthropometric features were evaluated in the Nair community and in autism. The parameters checked include dolichocephalic skull, prominent supraorbital ridge and mid face large flat nose and ring finger index finger ratios.

Results

The Nair community had a high prevalence of Neanderthal anthropometric features. Neanderthal anthropometric features were also dominant in autism.

Table 1. Incidence of autism in Nair, autistic and non-Nair population

Groups	Autism	Percentage
Nair	68 cases	68
Non-Nair	32 cases	32
Total	100	

Table 2. Anthropometric features in Nair, autistic and non-Nair population

Groups	Neanderthal anthropometric	Total cases	Percentage
Nair	72 cases	100	72
Non-Nair	21 cases	100	21
Autism	81 cases	100	81

Discussion

Neanderthal anthropometric features were seen in autism and Nair community dominating the part of the Indian subcontinent derived from Lemuria. This suggests a Lemurian supercontinent origin of the homo neanderthalis. The homo neanderthalis shared the lemurian supercontinent with another human species called homo floresiensis. Homo floresiensis has been detected in the island of Sumatra in Indonesia. The Nair community dominates the Kerala coast of South India. The Nair community is matrilineal and Dravidian. There are other civilizations speaking the Dravidian language important in human evolution like Harappa, Sumeria, Etruscia, Egypt and Basque country. These civilizations may have a Neanderthal substratum. They would have migrated to the Eurasian land mass from the lemurian supercontinent when it was destroyed by tsunamis in the Indian ocean. The Tsunamis would have evolved due to archaeal overgrowth in the southern ocean during the ice age. The archaea are extremophiles. The archaeal overgrowth in the Indian ocean bed in the ice age would have released methane. This would have triggered movement of the earth crust, earthquakes and tsunamis. The same endosymbiotic archaeal growth would have led to evolution of homo neanderthalis. The endosymbiotic archaeal metabolism in primates would have generated the species homo neanderthalis. The homo neanderthalis contributed to the civilizations of Harappa, Sumeria, Etruscia, Egypt, Basque and Celts. They were all matrilineal with gender equality. They had a symbolic language predominantly non-vocal. Music, dance and painting as a form of communication were prevalent in these societies. This is exemplified by the Harappan language dominated by Harappan seals and the Egyptian hieroglyphics. The concept of spirituality evolved in these societies including the worship of the mother goddess.

The increased prevalence of autism in the Dravidian Nair community has been documented. Autistic children and the Nair population tend to have Neanderthal anthropometric features. The South Indian land mass was a part of the lemurian supercontinent in the Indian and Southern ocean which was destroyed by giant Tsunamis and

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the population inhabiting the supercontinent are represented by the Dravidian population of South India. The population that migrated from the lemurian land mass travelled over to the Eurasian land mass creating the urban civilizations of Harappa-Mohenjodaro, Sumeria, Etruscia, Basque, Celts and Egypt. All these ancient civilizations were co-terminus and existed at the same point of time at least 10,000 years BC. The Harappa-Mohenjodaro civilization is considered to be Dravidian and the Harappan script has been decoded and found to be Akkadian-Dravidian. All the Harappa-Mohenjodaro, Sumeria, Etruscia, Basque, Celts and Egypt civilizations spoke the Akkadian-Dravidian language. As has been demonstrated the Dravidian Nair community has Neanderthal anthropometric features and Neanderthal metabolonomics. All the above mentioned civilizations have a possible Neanderthal origin. The Dravidian community is postulated to have evolved in the lemurian continent.

The homo neanderthalis would have evolved in the lemurian supercontinent in the Indian and Southern ocean during periods of extremes of weather. During the ice age and periods of global warming, there is increasing growth of the extremophilic archaea in the human body and oceanic ecosystems. The increasing growth of archaea in the ocean bed leads to release of methane which triggers catastrophic earthquakes in the oceans. This precipitates Tsunamis in the Indian ocean and one of them would have destroyed the lemurian land mass triggering a mass exodus. This would be the basis of the flood myths in history. The increasing growth of cholesterol catabolizing archaea in the primates leads to evolution of homo neanderthalis. The archaea binds to the toll receptor inducing HIF alpha suppressing mitochondrial function and increasing glycolysis. The archaeal catabolism of cholesterol produces cholesterol depletion and bile acid deficiency. Both these factors induce the metabolic syndrome and insulin resistance leading to trunkal obesity and the Neanderthal phenotype. The low cholesterol levels leads to vitamin D deficiency and rickets generating the Neanderthal phenotype with the characteristic anthropometric features. The cholesterol catabolism and ring oxidation leads to generation of pyruvate which is transferred to the GABA shunt pathway. This generates glycine and succinyl CoA synthesizing porphyrins which are dipolar molecules. The cholesterol catabolism generates digoxin which inhibits membrane sodium potassium ATPase and produces a Bose-Einstein condensate via the dipolar porphyrins inducing quantal perception. The digoxin induced membrane sodium potassium ATPase inhibition depletes the cell of magnesium inhibiting reverse transcriptase activity and HERV generation. The HERV produces genomic flexibility and lack of it leads

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to prefrontal cortex atrophy. The porphyrin induced quantal perception of low level EMF also leading to prefrontal cortex atrophy. There is cerebellar dominance in the Neanderthal phenotype leading onto increased intuitiveness, quantal perception, spirituality, community spirit, compassion, equality and feeling of oneness with the environment. Thus the Neanderthal phenotype would have evolved in the lemurian continent with its attached Antarctic land mass in the ice age. The Neanderthals would evolve due to similar mechanism during period of global warming. The evolution near the Antarctic part of the Lemuria and the decreasing availability of sunlight would have contributed to the light skin colour of Neanderthals. The Neanderthals following destruction of the lemurian supercontinent would have migrated to Harappa-Mohenjodaro, Sumeria, Etruscia, Basque, Celts and Egypt creating a global Dravidian civilization. This civilization had a language, was spiritual, had gender equality and social equality. It was also a creative urban civilization in Harappa-Mohenjodaro, Sumeria, Etruscia, Basque, Celts and Egypt.

The Harappa-Mohenjadaro, Sumeria, Etruscia, Basque, Celts and Egypt are essentially Dravidian and neanderthalic. The Harappan civilization was thus similarly neanderthalic and Dravidian. The initial inhabitants of Harappa were the asuras and they are the Dravidian Neanderthals. The Rig veda had a Harappan origin. The principal God the Rig veda is Varuna- the God of the Oceans. Such a concept would have evolved only in a land mass surrounded by oceans and in ocean travelers suggesting a neanderthalic Dravidian origin of Rig veda. The Indus script has been deciphered and is supposed to be logographic and of Akkadian-Dravidian origin. The Harappan civilization had thus a language, Rig vedic religion, laws and was urbanised. The Harappan civilization originated in and was made up of Neanderthal Dravidians migrating from Lemuria destroyed by tsunamis. It was a sister civilization to the other neanderthalic Dravidian civilizations of Sumeria, Etruscia, Basque, Celts and Egypt. It was part of the global Dravidian civilization.

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The Rig veda includes concepts of battle between asuric neanderthalic Dravidians of Harappa and the invading homo sapien devas. The homo sapien devas had a different brain structure with predominant prefrontal lobe and smaller cerebellum. They evolved out of Africa and HERV generation led to a dynamic large prefrontal cortex. They were different phenotypically from the asuric Dravidian Neanderthals. The asuric Dravidian Neanderthals were cultured with language, religion, laws and social organization. The asuric Dravidian Neanderthals were matrilineal. They were more gender-equal with alternate modes of sexual behaviour. The asuric Dravidian Neanderthals were social equal with a primitive type of

communism. The homo sapien devas did not have a language, laws or religion and were relatively uncivilized. They were more patriarchal and male dominant. The homo sapien deva invasion of the neanderthalic Harappan society led to the generation of Neanderthal hybrids and the hybrids got their religion and language as well as civilized behaviour from the neanderthalic Harappan Dravidians. The basis of human creativity can be related to this interaction between the Dravidian asuric Neanderthals and the homo sapien devas. The Rig veda is basically of Dravidian neanderthalic origin. The initial global language was Akkadian-Dravidian. The Sanskrit language is a modification of the Akkadian-Dravidian script. The homo sapien deva invasion led to the collapse of the global Dravidian civilization of Harappa-Mohenjodaro, Sumeria, Etruscia, Basque, Celts and Egypt. The great religions of the world the Judaeo-Christianity, Muslim and Hindu are basically Dravidian Neanderthal and Semitic. The Dravidian Neanderthal community migrating out of Lemuria was the basis of the Semitic community and the Semitic religions of the world. The neanderthalic brain was attuned to quantal perception and spirituality.

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In the present situation of global warming there is an increased growth of archaea in the human system and neanderthalisation of humans. The Neanderthals have returned and the human brain is becoming neanderthalic in behavior and function. This is responsible for the rising tide of autism, schizophrenia and metabolic syndrome X in the world.

The metal actinides provide radiolytic energy, catalysis for oligomer formation and provide a coordinating ion for metalloenzymes all important in abiogenesis. The metal actinide surfaces would by surface metabolism generate acetate which could get converted to acetyl CoA and then to cholesterol which functions as the primal prebiotic molecule self organizing into self replicating supramolecular systems, the lipid organism. Cholesterol by radiolysis by actinides would have formed PAH generating PAH aromatic organism. Cholesterol radiolysis would generate pyruvate which would get converted to amino acids, sugars, nucleotides, porphyrins, fatty acids and TCA acids. Anastase and rutile surfaces can produce polymerization of amino acids, isoprenyl residues, PAH and nucleotides to generate the initial lipid organism, PAH organism, prions and RNA viroids which would have symbiosed to generate the archaeal protocell. The archaea evolved into gram negative and gram positive bacteria with a mevalonate pathway which had an evolutionary advantage and the symbiosis of archaea with gram negative organism generated the eukaryotic cell. The data supports the persistence of an actinide and cholesterol based shadow biosphere which throws

light on the actinide based origin of life and cholesterol as the premier prebiotic molecule. The presence of placer deposits and mineral sands containing monazite, illmenite, rutile and thorium in the lemurian supercontinent would have made it the ideal place for the primitive cell, nanoarchaea, eukaryote, multicellular eukaryote, primates and humans to evolve. Anthropological studies have provided evidence for the evolution of primates and homo sapiens in the rift valley of Kenya part of the prehistoric lemurian continent.

The archaea can synthesize magnetite by biomineralisation. The archaeal cholesterol catabolism can generate PAH. The archaea can exist as nanoarchaea and can have calcified nanoforms. The actinidic magnetotactic nanoarchaea and its secreted PAH organisms are extremophiles and survive in the interstellar space and can contribute to the interstellar grains and magnetic fields which play a role in the formation of the galaxies and star systems. The cosmic dust grains occupy the intergalactic space and are thought to be formed of magnetotactic bacteria identified according to their spectral signatures. According to the Hoyle's hypothesis, the cosmic dust magnetotactic bacteria play a role in the formation of the intergalactic magnetic field. A magnetic field equal in strength to about one millionth part of the magnetic field of earth exists throughout much of our galaxy. The magnetic files can be used to trace the spiral arms of the galaxy following a pattern of field lines that connect young stars and dust in which new stars are formed at a rapid rate. Studies have shown that a fraction of the dust particles have elongated shape similar to bacilli and they are systematically lined up in our galaxy. Moreover the direction of alignment is such that the long axes of the dust tend to be at right angles to the direction of the galactic magnetic field at every point. Magnetotactic bacteria have the property to affect the degree of alignment that is observed. The fact that the magnetotactic bacteria appear to be connected to the magnetic field lines that thread through the spiral arms of the galaxy connecting one region of star formation to another support a role for them in star formation and in the mass distribution and rotation of stars. The nutrient supply for a population of interstellar bacteria comes from mass flows out of supernovas populating the galaxy. Giants arising in the evolution of such stars experience a phenomenon in which material containing nitrogen, carbon monoxide, hydrogen, helium, water and trace elements essential for life flows continuously outward into space. The interstellar bacteria need liquid water. Water exists only as vapour or solid in the interstellar space and only through star formation leading to associated planets and cometary bodies can there be access to liquid water. To control conditions leading to star formation is of paramount importance in cosmic biology. The rate of star formation is controlled by two

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factors: Too high a rate of star formation produces a destructive effect of UV radiation and destroys cosmic biology. Star formation as stated before produces water crucial for bacterial growth. Cosmic biology of magnetotactic bacteria and star formation are thus closely interlinked. Systems like solar systems do not arise in random condensation of blobs of interstellar gas. Only by a rigorous control of rotation of various parts of the system would galaxies and solar system evolved. The key to maintaining control over rotation seems to lie in the intergalactic magnetic field as indeed the whole phenomena of star formation. The intergalactic magnetic fields owes its origin to the lining up of magnetotactic bacteria and the cosmic biology of interstellar bacteria can prosper only by maintaining a firm grip on the interstellar magnetic field and hence on the rate of star formation and type of star system produced. This points to a cosmic intelligence or brain capable of computation, analysis and exploration of the universe at large- of magnetotactic bacterial networks. The origin of life on earth according to the Hoyle's hypothesis would be by seeding of bacteria from the outer intergalactic space. Comets carrying micro organisms would have interacted with the earth. A thin skin of graphitized material around a single bacteria or clumps of bacteria can shield the interior from destruction by UV light. The sudden surge and diversification of species of plants and animals and their equally sudden extinction has seen from fossil records point to sporadic evolution produced by induction of fresh cometary genes with the arrival of each major new crop of comets. The interstellar PAH aromatic organism is formed from nanoarchaeal cholesterol catabolism. The PAH and cholesterol are the interconvertable primal prebiotic molecules. PAH aromatic organism and nanoarchaeal magnetite can have a wave particle existence and bridge the world of bosons and fermions. The nanoarchaea can form biofilms and the PAH aromatic organism can form a molecular quantum computing cloud in the biofilm which forms an interstellar intelligence regulating the formation of star systems and galaxies. The magnetite loaded nanoarchaeal biofilms and PAH aromatic organism quantal computing cloud can bridge the wave particle world functioning as the anthropic observer sensing gravity which orchestrates the reduction of the quantal world of possibilities in to the macroscopic world. The actinide based nanoarchaea can regulate the earth's carbon cycle by methanogenesis, nitrogen cycle by ammonia oxidation and rain formation by contributing the seeding nucleus. The earth's temperature and global warming and cooling are regulated by nanoarchaeal synthesized PAH from cholesterol and methanogenesis. The increased nanoarchaeal growth in ocean beds and soil leads to increased methane production and movement of the earth's crust producing tsunamis and massive earthquake leading to catastrophic mass extinction. This nanoarchaeal growth in the Southern

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ocean and Indian ocean bed due to global warming induced by civilizational progress and human activity would have led to methane burps in the ocean bed contributing to massive earthquakes leading onto tsunamis. This would have led to catastrophic destruction of the lemurian supercontinent. The migration of the lemurian survivors into the Indian sub-continent Indus valley, the Nile valley and the Mesopotamian valley would have contributed to the origin of the Harappan, Sumerian and Egyptian civilization which have all evolved during the same period of human history. The eternal nanoarchaea survive and start the cycle of evolution once more. The actinide based nanoarchaea regulates the human system and biological universe.

The actinidic nanoarchaeal growth would have led to methane burps in the ocean bed contributing to earthquakes and tsunamis producing extinction of the Lemurian supercontinent. It also supports the abiogenesis on radioactive actinidic beach sands through the process of surface metabolism. This gives support to the role of actinidic archaea as the third element that controls life and its role in the evolution of the multicellular eukaryote, primates and humans. Civilization and humans would have evolved in the placer deposits and actinidic sand rich pre-historic lemurian supercontinent in the Indian and Southern ocean.

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The increased prevalence of the Neanderthal anthropometric features in the Nair community and autism suggests a lemurian origin for homo neanderthalis. This suggests an out of oceania hypothesis for homo neanderthalis with later migration to the Eurasian land mass consequent to destruction of the supercontinent by tsunamis. The tsunamis would have been precipitated by increased archaeal growth in the oceanic beds and movements in the earth crust produced by released methane. The homo neanderthalis also originated due to increased endosymbiotic actinidic archaeal growth.

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CHAPTER 19
RNA VIROIDAL CLOUD IN THE INTERSTELLAR SPACE AND HUMAN EVOLUTION

Introduction

The interstellar space is filled with star dust which is postulated to be of biological origin. Fred Hoyle in his hypothesis of the life cloud has put forward an extra terrestrial origin for life on earth. The existence of an extra terrestrial force controlling the genesis and evolution of life on earth has been put forward by many authors. The biocosm theory postulates that the conditions in the universe have been so adjusted to make it possible for life to exist on earth and the universe. This leads to the postulate that the universe exists and reproduces because of life which acts as a quantal observer. This paper deals with the role of extremophilic archaea and RNA viroids extruded from the archaeal cells as primitive anthropomorphic observers making it possible for the universe to exists and evolve. The human race is divided into two species homo sapiens and homo neanderthalis. The homo neanderthalis interbred with homo sapiens to produce a hybrid species. Therefore there are species with more of neanderthalic origin and homo sapien species in earth. The previous studies have demonstrated matrilineal societies with more of neanderthalic origin in contrast to patrilineal societies. The origin of neanderthalic societies and homo sapien communities was ascribed to symbiosis. The Neanderthal species has more of extremophilic archaeal symbiosis occurring in the extremes of climate like the ice age and global warming. The homo sapien species has more of intragenomic RNA viroid/retroviral symbiosis which contribute to the dynamicity of the homo sapien genome. The Neanderthal species were retroviral resistant. The origin of the archaea and the RNA viroids are possibly from the interstellar space as archaeal clouds and RNA viroidal quantal computing clouds which function as extraterrestrial intelligence. The RNA viroids are extruded by archaeal cells. They would have reached the earth via meteoroidal impacts and seeded life on earth. The archaeal colonies would have organized into the homo neanderthalic species in Eurasia and RNA viroidal colonies would have led to the evolution of homo sapien species in Africa.[1-16] The paper deals with this hypothesis.

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Materials and Methods/ Results

The blood samples were drawn from the homo neanderthalic matrilineal species and the homo sapien species. The estimations done in the blood samples collected include

cytochrome F420 activity. The generation of RNA viroids in the plasma was studied. The results showed that the matrilineal species of neanderthalic origin had more of archaeal symbiosis while the homo sapien species had more of RNA viroidal symbiosis.

Table 1. Cytochrome F420 activity

		Sudra	Non-Sudra	F value	P value
CYT F420 % (Increase with Cerium)	Mean	23.46	4.48	306.749	< 0.001
	± SD	1.87	0.15		
RNA % change (Increase with Rutile)	Mean	4.37	23.59	427.828	< 0.001
	± SD	0.13	1.83		
RNA % change (Decrease with Doxy)	Mean	18.38	65.69	654.453	< 0.001
	± SD	0.48	3.94		

Discussion

The quantal wave form or the Higgs field gives mass and energy to the particles like protons, neutrons and electrons when it interacts with it. The quantal wave forms can generate porphyrins. Porphyrins can have a macromolecular and wave existence which is interconvertible. The porphyrin arrays can self organize and self reproduce. The macromolecular porphyrin arrays would have functioned as intelligent organisms in the interstellar space. The iron porphyrins can undergo photooxidation and generate a magnetic field. The photonic interaction with the magnetic porphyrins can generate black holes which can collapse to a point before singular density. At this point of time it can undergo rebounce producing new universes. The porphyrin organism with its quantal computing function served as the initial anthropomorphic observer or the lotus of Brahma. The porphyrins would have formed a template for RNA viroids and prions to form. This would have generated primitive archaeal forms. The primitive archaeal cell can extrude RNA viroids generating RNA viroidal clouds. The intergalactic magnetic field generated by the archaea and magnetic porphyrin organism would have contributed to the evolution of star systems and galaxies. The archaeal clouds and RNA viroidal clouds would have served as interstellar intelligence guiding the formation of star systems and galaxies and also functioning as anthropomorphic observers. The meteoritic impacts would have transferred the archaeal and RNA viroidal colonies to earth. They would have self organized into plant and animal species as well as homo sapien and homo neanderthalic species. The homo neanderthalic species are archaeal dominant. The homo sapien species are RNA viroidal dominant.[1-16]

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The big-bang cosmology postulates the evolution of the universe from the Higgs field. Higgs field is made up of Higgs Boson and top quarks. Higgs Boson can exists in two states. The stable state which is of high energy, low density compatible with the present existence of universe and the unstable state which is of low energy and high density. The universe is presently in the edge of the stable state. The low energy high density state is unstable and can cause catastrophic vacuum expansion leading to the end of the universe. The Frohlich model of quantal brain function postulates the existence of Bose-Einstein condensates in the brain at normal temperature. There are dipolar magnetite and porphyrin molecules in the brain which in the context of membrane sodium potassium ATPase inhibition can lead onto a pumped phonon system producing Bose-Einstein condensate and bosons in the brain. This boson can become unstable leading onto catastrophic vacuum collapse and the possible extinction of the universe. The Frohlich model of Bose-Einstein condensate formed of magnetic dipolar porphyrins and archaeal magnetite in cellular lipid emulsions can interact with photons generating black holes. This black hole can collapse to singularity. But the collapse happens only upto a particular point following which the density or singularity undergoes a rebounce producing a new universe with a new set of universal constants. Thus the quantal model of brain function can lead onto the destruction and reproduction of universes. The brain can be considered to be a multicellular quantal computing archaeal network in the case of homo neanderthalis. The synaptic networks of the brain parallel the galactic networks of the universe. The brain functions as the universal quantal computer and anthropomorphic observer creating and destroying as well as reproducing universes. This occurs to a lesser extent in the homo sapien brain.[1-16]

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The homo neanderthalis species would tally with the biblical fallen angels and the homo sapien species representing the God angel. They are basically visitations of extra terrestrial intelligence as archaeal and RNA viroidal colonies. The homo neanderthalis is a evolved archaeal colony network. The archaea extrudes RNA viroids. The homo sapien species is RNA viroidal dominant with RNA viroids integrated into the genomic DNA. The organization of race and caste system in India points to such an origin. The homo neanderthalic species had an initial habitation in the Indian ocean continent which had a catastrophic extinction by archaeal expansion in the ocean crust which generated dangerous tsunamis during ice age. The Neanderthals migrated to the Eurasian landmass creating the civilization of Harappa, Sumeria and Egypt. They are the Asuras of Rig veda. The homo neanderthalic species are fair, matrilineal, asexual, spiritual, altruistic and community

organized. These civilizations were basically matrilineal and creative. They were paganistic, secular and atheistic. They were environmentally conscious living in quantal interaction with the world around creating a feeling of environmental spiritual consciousness. The society formed on this basis functioned as an organic whole in quantal interaction with one another. It was equal, just and functioned as primitive form of socialistic society. The homo neanderthalis species was essentially asexual with the gender equality and matrilinearity. The archaeal overgrowth consequent to global warming can lead to eventual neanderthalisation of the human species and brain. The brain neuronal cortex shrinks due to quantal perception of electromagnetic fields which pollute the globalized warm world. There is also consequent cerebellar hypertrophy. Cerebellar hypertrophy can lead onto schizophrenia and autistic modes of behavior. Cerebellar hypertrophy can lead to cerebellar dysfunction and motor ataxia. The motor ataxia and the clumsiness of movement and speech would have lead to the evolution of abstract painting, dance, music, symbolic speech and eventually speech in the Neanderthals. The neanderthalisation of the human brain consequent to global warming leads to evolution of rock music, dance and modern forms of abstract painting. The Neanderthal brain owing to magnetite mediated increased quantal perception are more spiritual. The Neanderthal community owing to quantal perception functions as one single whole leading to altruism, spirituality, socialism, gender equality and eco-spirituality. This represents the civilizational mode of the eastern world. The societies emerged from the possible Lemurian landmass. As they evolved out of extra terrestrial archaeal colonies and intelligence their level of development and intelligence was high. They possessed the original language and the concept of a human Godhead was developed first in their civilization. The Rig veda is the oldest spiritual book of humankind. Most of the Gods described in Rig veda were of asuric origin even Varuna, the principal God. The major philosophical entities of Buddhism and Jainism which are basically atheistic religions preaching social equality, oneness and justice were evolved by the Asuras. The homo sapiens evolved in Africa and migrated to the Eurasian landmass. They had basically an RNA viroidal symbiosis in the brain which gave rise to a practical less creative brain. The homo sapien species are patrilineal, commonsensical and individualistic. The homo sapien community forms the Devas of the vedic literature and the Rig veda describes clashes and wars between the asuric inhabitants of Harappa and the invading Devas. They over ran the neanderthalic civilizations and created a racial society with the homo sapiens as the ruling class and the Neanderthals as the under caste of sudras. The sudras formed the discriminated underbelly of the civilization. The literature, language and holy books of the Asuras were taken over by the uncivilized homo

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sapience Devas who made it into their own. The future generations of sudras were prevented from learning their language and worshiping their Gods which were taken over by the homo sapienic Devas. The homo sapienic Devas were theistic, individualistic, unaltruistic and had no communal or societal consciousness. This signifies the civilizational mode of the western world. The archaeal growth in homo sapiens is less. This leads onto less of magnetite mediated quantal perception and universal oneness. This contributes to the individuality, selfishness, unaltruistic behavior, unbridled capitalism and the patriarchal gender unequal society of the homo sapien world.[1-16]

The homo neanderthalic society owing to increased quantal perception is spiritual and feels the oneness of the world and the godliness of individual human beings. This leads onto the philosophy of Buddhism with its sense of atheism and human values. Buddhism and Jainism as well as the Mauryan empire represent victory for the asuric Neanderthals or the sudras. The Buddhist and Hindu society of neanderthalic world considered good and evil as part of the same quantal world representing the universal soul. The godhead and the fallen angel belong to the same quantal world of the universal soul. The concept of right and wrong are not absolute contraindications but part of the same quantal world. The quantal perception produces information storage after mortality and the idea of reincarnation. The increased world of quantal perception mediated oneness and the cholesterol catabolising archaeal overgrowth leading to sex hormone deficiency produces the gender equal asexual world. Sexuality is not considered as something apart from religion as evidenced by the tantric schools of Hinduism and Buddhism. It was considered as a form of experiencing oneness as indicated by ideas such as Kundalini. The increased quantal perception leads to a feeling of oneness which produces universal unity. There is no war but universal peace. Eastern societies like China and India are basically quantal docile societies with war being uncommon. The major wars in Hindu history like the Mahabharata and Ramayana war were those between the colonizing homo sapien Devas and the native peaceful Neanderthals. The Pandava army were the homo sapien Devas and the Kaurava army the neanderthalic natives. The God Rama was the head of homo sapien Devas and the Ravana the leader of the native Neanderthals. The Devas were the head of the colonizing homo sapiens from Europe. They could win the Mahabharata and Ramayana wars and the sudric neanderthalic native population was rendered to slavery for generation to come. The independence struggle and Gandhi's attitude to the lower caste and harijans were a part of the same phenomena. The homo sapien world on the other hand due to reduced quantal perception was individualistic.

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Good and evil were absolutely different as the God and the fallen angel. There was no belief in reincarnation and sexuality was considered as taboo. The homo sapien society owing to its reduced quantal perception and individualistic nature discovered wars and slavery. Wars are essentially a feature of semitic societies and religion. The homo sapien Devas are capitalistic and rightist in their attitude to society while the homo neanderthalis is communistic and socialistic. The war between capitalism and socialism is representative of that between Neanderthals and homo sapiens. The phenomena of global warming, archaeal overgrowth and neanderthalisation of homo sapiens will lead to a more peaceful, globalized, spiritual, gender equal and altruistic society. But the Neanderthal domination resulting from global warming can lead to the society's own demise.[1-16]

The phenomena of climate change and global warming leads onto archaeal multiplication and neanderthalisation of the human race. Archaeal growth occurs in extremes of climate- the ice age and in times of global warming. This results in a return to asuric culture and civilization with its spiritual, environmentally conscious, socialistic, asexual and group identity. The modern world is represented by the Kali yuga where the sudras or the Neanderthals return to a position of power and global significance. This represents the rise of the asuric neanderthalic sudric slaves. This is represented by the rise of neanderthalic eastern societies of China and India as well as the decline of the homo sapien West and Africa. The neanderthalisation of homo sapiens due to archaeal growth can lead to human disease and eventual extinction. The archaea catabolises cholesterol to generate digoxin. Digoxin functions as the neanderthalic hormone. Digoxin produces membrane sodium potassium ATPase inhibition and increased intracellular calcium and reduced magnesium. Magnesium deficiency leads to mitochondrial dysfunction, vasospasm, dyslipidemia and metabolic syndrome X. The increase in intracellular calcium leads to oncogene activation and malignancies. The increase in intracellular calcium can activate NFKB leading to immune activation and autoimmune disease. The increased intracellular calcium can activate the caspase cascade leading onto cell death and degenerations. The increase in intracellular calcium can increase synaptic release of monoamine neurotransmitters producing schizophrenia and autism. The increase in archaeal growth can produce the Warburg phenotype with increased glycolysis and mitochondrial dysfunction. The increased glycolysis can activate the lymphocyte producing autoimmune disease as lymphocytes are dependent on glycolysis for energy needs. The cancer cells also depend on glycolysis for energy needs. The Warburg phenotype can lead onto increase in malignancies. The Warburg phenotype and

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increased glycolysis can lead to poly ribosylated glyceraldehyde 3-phosphate dehydrogenase mediated cell death and degeneration. The Warburg phenotype can lead to magnesium deficiency related insulin resistance and mitochondrial dysfunction leading to schizophrenia. Thus archaeal mediated hyperdigoxinemia and Warburg phenotype can lead to civilizational diseases in the Neanderthal phenotype leading onto its extinction. The archaeal overgrowth in the ocean crust owing to global warming can lead to release of large amounts of methane producing oceanic earthquakes, tsunamis and destruction and splitting up of continents. This leads onto the catastrophic end of the world. As also the archaeal porphyrin and magnetite mediated Frohlich model of Bose-Einstein condensates in the brain generated bosons can undergo catastrophic vacuum decay leading to universal extinction. The magnetic dipolar porphyrins and magnetite in the lipid emulsion of brain cells can be photonically excited generating black holes. These black holes don't reach absolute singularity, but near that point can undergo a phenomenon called rebounce reproducing the universe. Thus the neanderthalisation of human brain and generation of Bose-Einstein condensate of the Frohlich model can lead to extinction and reproduction of the universe.[1-16]

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CHAPTER 20
PORPHYRINOGENESIS AND ABIOGENETIC REPLICATION OF VIRUSES, PRIONS AND ARCHAEA

Climate change leads to increased porphyrin synthesis and porphyrin template mediated replication of viruses, prions and archaea. There is increased porphyrin synthesis leading onto porphyrinuria and porphyria. The stimulus for porphyrin synthesis comes from heme deficiency. Heme suppresses ALA synthase. Stress induces heme oxygenase which converts heme to carbon monoxide and bilirubin. Thus heme is depleted from the system. Heme oxygenase is induced by environmental stress. Climatic changes of global warming and ice age can induce heme oxygenase. Heme oxygenase is also induced by EMF pollution of the environment. Thus there is increased porphyrin synthesis from succinyl CoA and glycine. The porphyrins can self organize and self replicate to form primitive organisms called porphyrions. The porphyrions have a primitive electron transport chain and energetics. The porphyrions are capable of information transfer and storage by quantal perception. The porphyrions form a template for the formation of RNA viruses and viroids, DNA viruses and viroids, isoprenoid organisms and prions which all can self organize and associate to form primitive archaea. Thus the climate change induced global increase in porphyrin synthesis in humans lead to increased abiogenetic formation of archaea which produces more of methane and methanogenesis leading to more of global warming. Global warming leads to more heme oxygenase induction and porphyrinogenesis. The porphyrins can form a template for abiogenetic replication of RNA viruses like corona viruses. The porphyrins can intercalate between cellular and organelle membranes and the porphyrin corona virus complex can enter all cell types and organelle with these. The porphyrins will serve for abiogenetic template mediated self replication of the corona virus. The corona virus RNA can get transcribed to DNA sequences by using human HERV reverse transcriptase. The corona virus DNA sequences can get integrated into the human genome non-coding area producing dynamic changes in the human genome. The corona virus can thus persists and replicate biologically and abiogenetically in the human system forever eternally.

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Neanderthal metabolonomics and climate change

The Neanderthal metabolic patterns were different from the homo sapien patterns. Stress of the ice age led to the induction of HO1. HO1 converts heme to bilirubin and carbon monoxide. This results in heme depletion. Heme depletion induces ALA synthase and results

in porphyrinogenesis. Porphyrin photooxidation results in ROS generation and induction of HIF alpha resulting in the Warburg phenotype with increased glycolysis, PDH inhibition and mitochondrial dysfunction. Heme depletion leads to defective function of the TCA cycle heme enzyme aconitase and the mitochondrial enzyme cytochrome C oxidase. This results in the body generating energy by glycolysis as well as membrane sodium potassium ATPase inhibition induced ATP synthesis. Mitochondrial dysfunction leads to insulin resistance.

The PDH inhibition leads to less levels of the substrate acetyl CoA for the isoprenoid pathway for synthesis of cholesterol. Low level of cholesterol synthesis leads to low cortisol, testosterone, estrogen, vitamin D, coenzyme Q and bile acids. Bile acid deficiency can lead to defective modulation of LXR, FXR and PXR leading to metabolic syndrome X. CoQ deficiency leads to mitochondrial dysfunction. Vitamin D deficiency leads to immune activation. Low cortisol levels lead to defective stress response. Low testosterone and estrogen leads to an asexual state.

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Endosymbiotic archaea and biological transmutation

The archaea can induce biological transmutation metals. There is conversion of magnesium to calcium. This results in mitochondrial PT pore dysfunction and cell death, NFKB activation and immune stimulation, release of monoamine neurotransmitters resulting schizophrenia and autism, calcium induced oncogene activation and defective insulin secretion producing metabolic syndrome. There is also conversion of zinc to copper. Zinc is required for glutamate and GABA transmission. Zinc functions as a neurotransmitter in the prefrontal cortex. The zinc containing neurons are called gluzinergic neurons. Copper is required for monoamine transmission and the function of cerebellum, brain stem and basal ganglia the primitive parts of the brain. Thus the conversion of zinc to copper results in prefrontal cortex atrophy and cerebellar dominance. Biological transmutation can also generate energy.

Endosymbiotic archaea induced Warburg phenotype

The archaea induced Warburg phenotype can produce PDH blockade and accumulation of pyruvate. The pyruvate enters the GABA shunt generating succinyl CoA and glycine resulting in porphyrin synthesis. Porphyrin can produce quantal perception of low level EMF resulting in prefrontal cortex atrophy and cerebellar dominance. Since glycine is used up for porphyrin synthesis serine is not formed. There is no cystathionine synthesis

leading onto hyperhomocysteinemia. The PDB blockade results in accumulation of pyruvate which gets converted to glutamate and ammonia resulting in a hyperammonemic syndrome.

The BKCD enzyme has a structure similar to PDH. BKCD deficiency results in accumulation of branched chain amino acids. To counteract this, the Neanderthals developed defects in neutral amino acids renal transporter. This resulted in a Hartnup's disease mutation and nicotinic acid deficiency consequent to loss of tryptophan. The function of sirtuins a histone deacetylase inhibitor also involved in protein acetylation is affected. Nicotinic acids are sirtuin inhibitors. The PDH blockade results in defective generation of acetyl CoA and defective protein acetylation. There are nearly 3500 acetylated proteins. Thus PDH blockade can modulate proteonomics.

Archaea viroids and metabolic regulation

The archaea induced RNA viroids can block mRNA and regulate RNA function. The porphyrins can intercalate with DNA and RNA modulating their function. Sirtuin induced HDAC inhibition modulated by Hartnup's disease mutation and nicotinic acid deficiency can also modulate genomic function. The RNA viroids generated by archaea can get integrated into DNA, function as jumping genes and modulate genomic function.

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Archaeal digoxin and metabolic regulation

The archaea can catabolize cholesterol to digoxin which can produce membrane sodium potassium ATPase inhibition increasing intracellular calcium and reducing intracellular magnesium. There is decrease in magnesium and increase in calcium results in mitochondrial PT pore dysfunction and cell death, NFKB activation and immune stimulation, release of monoamine neurotransmitters resulting schizophrenia and autism, calcium induced oncogene activation and defective insulin secretion producing metabolic syndrome.

Global warming, endosymbiotic archaea and fructose disease

Global warming leads to increase in endosymbiotic actinidic archaeal growth. Archaea are extremophiles. The actinidic archaea survive by catabolizing cholesterol. The archaea and its antigens induce HIF alpha and activate the glycolytic pathway. The glycolytic pathway activation induces increased conversion of glucose to fructose by activation of the sorbitol pathway. Glucose is converted to sorbitol by the enzyme aldose reductase and sorbitol is converted to fructose by the action of sorbitol dehydrogenase. Fructose is

phosphorylated by hexokinase or fructokinase to fructose phosphate. Hexokinase has a low km value for fructose and minimal amounts of fructose will be converted to fructose phosphate depleting the cellular ATP. ATP is converted to AMP and by the action of AMP deaminase is converted to uric acid. Thus there is resultant hyperuricemia and the depletion of ATP also produces membrane sodium potassium ATPase inhibition. Inhibition of membrane sodium potassium ATPase increases intracellular calcium and depletes magnesium. This produces cell death by opening up the mitochondrial PT pore, NFKB activation and immune activation, glutamate excitotoxicity and oncogene activation leading to systemic disorders. The depletion of ATP finally inhibits hexokinase as such and glucose phosphorylation stops blocking the glycolytic pathway and its coupling to the mitochondrial oxidative phosphorylation by the action of PT pore hexokinase. The cell is depleted of energy by glycolysis and the oxidative phosphorylation scheme and dies. Thus global warming via induction of glycolysis and Warburg phenotype and the increased conversion of glucose to fructose and the resultant cellular depletion of ATP can produce systemic disorders and cell dysfunction as well as death. This can produce the global warming related systemic syndrome.

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Global warming leads to neanderthalisation of the human species consequent to growth of actinidic archaea. The Neanderthals were accustomed to a ketogenic high fat, high protein diet. The ketone bodies were oxidised to generate ATP in the mitochondria. The neanderthalised humans due to actinidic archaeal growth due to consumption of a glucogenic diet leads to induction of glycolytic enzymes. The glycolytic enzymes are cytosolic. The glycolytic enzymes are antigenic in the neanderthalised humans. The glycolytic enzymes were suppressed in homo neanderthalis who ate ketogenic diet. This results in suppression of induced glycolytic enzymes by antibody formation in homo neoneanderthalis which arises due to archaeal growth consequent to global warming. The blockade of glycolysis results in blockade of cell energetics. This results in hyperglycemia and metabolic syndrome X. The glucose is converted to sorbitol by aldose reductase and sorbitol is converted to fructose by fructokinase. Fructokinase enzyme is native to Neanderthals as they consumed fruits along with fat and protein from meat. Fructose is phosphorylated to fructose phosphate which depletes the cell of ATP. This inhibits membrane sodium potassium ATPase leading onto increase in intracellular calcium and reduction in intracellular magnesium. This produces glutamate excitotoxicity and neurodegeneration, oncogene activation and malignancy, NFKB activation and autoimmune disease, release of mono amine neurotransmitters from

presynaptic vesicles and schizophrenia and all systemic diseases. The increased glucose gets metabolised by archaeal glycolysis and citric acid cycle. The pyruvate generated by archaeal glycolysis enters the GABA shunt scheme generating succinyl CoA and glycine which are substrates for porphyrin synthesis. The archaeal citric acid cycle can be reductive generating carbon dioxide fixation akin to the Calvin cycle of photosynthesis or oxidative generating acetyl CoA which is used for cholesterol synthesis by the archaeal mevalonate pathway. The archaeal glycolysis also generates fructose 1,6-diphosphate which enters the pentose phosphate pathway producing D xylulose phosphate which is a substrate for DXP pathway of archaeal cholesterol synthesis. The archaea synthesizes cholesterol by both the mevalonate pathway and DXB pathway. The archaea can use cholesterol for energetics by catabolizing it. The cholesterol ring is oxidised to pyruvate which enters the GABA shunt which provides substrates for the citric acid cycle. The pyruvate is converted to glutamate and ammonia. The archaea can oxidise ammonia for energy. The side chain of cholesterol is oxidised to butyrate and propionate which can also be further utilised for energy purposes. The archaeal energetics depends on glycolysis, citric acid cycle, ammonia oxidation and cholesterol catabolism. The antibodies against the glycolytic enzymes aldolase, enolase, GAPDH and pyruvic kinase contributes to metabolic syndrome X, schizophrenia, mood disorders, autism, multiple sclerosis, lupus, Alzheimer's disease and Parkinson's disease. The upregulation of glycolysis contributes to neoplastic state. The antibodies are produced against induced glycolytic enzymes as well as archaeal glycolytic enzymes. The blockade of glycolysis leads to a secondary mitochondrial dysfunction. The glycolytic scheme is coupled to mitochondrial oxidative phosphorylation by mitochondrial PT pore hexokinase. The antibodies against glycolysis blocks glycolysis and produce secondary mitochondrial dysfunction. The cell uses all its energetics. The depletion of ATP by phosphorylation of fructose produces membrane sodium potassium ATPase inhibition and cell hibernation as well as stem cell transformation. The human tissue systems come to a halt and form a framework for archaeal colonies to thrive. The human body becomes a zombie for archaeal colonies which are eternal. This affects the function of organ systems like the liver producing cirrhosis, the lung producing interstitial lung disease, renal fibrosis and CRF, cardiomyopathy and Alzheimer's disease. This can be called as the zombie syndrome. The depletion of ATP by phosphorylation of fructose generates ADP and AMP which by action of AMP deaminase produces uric acid and hyperuricemia. The zombie syndrome converts the human body to a framework for an archaeal colony network. The archaea can secrete RNA and DNA viroids which can recombine with human endogenous retroviral sequences and human DNA sequences

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generating new RNA viruses, DNA viruses and bacteria. Thus the zombie syndrome results in the generation of new bacteria and viruses. The zombie syndrome can be treated by suppression of glycolysis. This can be done by giving a ketogenic diet derived from fibre short chain fatty acids- butyrate and acetate, polyunsaturated fatty acids and short chain fatty acids like lauric acid.

Global warming, endosymbiotic archaea and connective tissue metabolism

The global warming zombie syndrome results in conversion of glucose to fructose by the induction of aldose reductase consequent to dehydration. The glucose is first converted to sorbitol by aldose reductase and then by sorbitol dehydrogenase to fructose. Fructose has got a high value for ketokinase and is phosphorylated and enters the pentose phosphate pathway. Fructose is converted to glucosamine phosphate and galactosamine phosphate. There is increased synthesis of glycosaminoglycans. This produces GAG accumulation in the vessels producing mucoid angiopathy, kidney producing MEN, heart producing EMF, pancreas producing CCP and thyroid producing MNG. It can also result in fibrosis of the lung and liver producing cirrhosis and interstitial lung disease. These diseases are common in warm tropical countries, south of equator and can be called as the Lemurian syndrome. The increase km value of fructose for ketokinase results in increased phosphorylation of fructose over glucose producing hyperglycemia and metabolic syndrome. The phosphorylation of fructose depletes the cell of ATP and converts ATP to AMP and ADP which is acted upon by ATP deaminase producing uric acid. The channelling of fructose into the pentose phosphate pathway results in increased production of ribose and nucleic acid synthesis and uric acid production consequent to purine degradation. There is hyperuricemia. The tubular defect of MEN produces hypokalemia and hyponatremia. The increase in fructose produces fructose glycation of proteins resulting in the formation of antigenic proteins and autoimmune disease. Fructose can produce inflammation and autoimmunity. This is called as fructositis. The increase in fructose which is channelled to the pentose phosphate pathway and ribose synthesis results in increased nucleic acid synthesis and cancer formation. The depletion of cellular ATP consequent to phosphorylation of fructose results in cell death and neuronal degeneration. Cell death in intestinal mucosa breaches the blood gut barrier producing leaky guts syndrome, acute phase response and metabolic syndrome X as well as autoimmunity. The phosphorylation of fructose and depletion of ATP results in membrane sodium potassium ATPase inhibition and increase in intracellular calcium and reduction in intracellular magnesium. This results in insulin resistance, glutamate excitotoxicity, oncogene activation,

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monoamine secretion from presynaptic vesicles and schizophrenia as well as NFKB activation and autoimmunity. The channelling of fructose to glucosamine synthesis and increased synthesis of GAG results in increased heparan sulphate synthesis which will combine with proteins forming amyloid. Amyloid formation is the basis of motor neuron disease where ribonucleoproteins form amyloid. In Parkinson's disease alpha synuclein forms amyloid. In Alzheimer's disease beta amyloid is formed. The tumour suppressor proteins forms amyloid and results in oncogenesis. The islet associated amyloid polypeptide forms the basis of defective insulin secretion in metabolic syndrome X.

Global warming, endosymbiotic archaea and fructosemia

Global warming leads to aldose reductase induction. Aldose reductase converts glucose to sorbitol. Sorbitol is converted to fructose by sorbitol dehydrogenase. Fructose is phosphorylated by fructokinase and ketokinases have a higher km value for fructose than glucose. This results in rapid phosphorylation of fructose and depletion of cellular ATP. The depletion of cellular ATP has two consequences. ATP is converted to ADP and AMP. ADP and AMP are acted upon by deaminases generating uric acid. Hyperuricemia is a feature of global warming related metabolic phenomena. The depletion of ATP results in renal tubular dysfunction producing loss of electrolytes and amino acids. This results in non-specific aminoaciduria, hypokalemia and hyponatremia. There is no edema or hypertension. This produces a chronic tubulointerstitial disease called Mesoamerican nephropathy. The cellular depletion of ATP can produce cell death leading onto neuronal degeneration. The depletion of ATP produces membrane sodium potassium ATPase inhibition and increase in intracellular calcium and reduction in intracellular magnesium. This produces immune activation by NFKB induction, oncogene activation, glutamate excitotoxicity and neurodegeneration, release of monoamines into synaptic junction and schizophrenia. The depletion of ATP can also affect the gut blood barrier producing an acute phase response and leaky gut syndrome. The acute phase response can lead to metabolic syndrome X. The depletion of ATP owing to the affinity of ketokinases for fructose leads to lack of phosphorylation of glucose. This leads to hyperglycemia and metabolic syndrome X. The glucose that accumulates gets converted to fructose producing the syndrome of fructositis.

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Fructose has got two metabolic fates. The fructose can get phosphorylated to fructose phosphate and enter the pentose phosphate pathway generating ribose important in nucleic acid synthesis. The purine catabolism can generate uric acid. The synthesis of nucleic acid

can lead to increased cell proliferation and oncogenesis. Thus global warming related fructositis can lead to oncogenesis. The fructose that gets accumulated can also enter the pathway for glycosaminoglycan and proteoglycan synthesis. The fructose is phosphorylated and converted to fructose phosphate which can be converted to glucosamine and galactosamine which are substrates for glycosaminoglycan synthesis. This results in accumulation of connective tissue mucopolysaccharides in the body and tissues leading onto disease states like endomyocardial fibrosis, chronic calcific pancreatitis, multinodular goitre and mucoid angiopathy which can be classified as a cardiovascular and endocrine syndrome of unknown origin related to global warming akin to MEN. The accumulation of mucopolysaccharides can occur in the liver producing cirrhosis of the liver and in the lung producing interstitial lung disease. The mucopolysaccharide, heparan sulphate can combine with prion proteins producing amyloid deposition leading onto conformational diseases. This include the prion proteins leading onto Creutzfeldt Jakob's disease, copper zinc dismutase and motor neuron disease, alpha synuclein and Parkinson's disease and tumour suppressor protein and cancer. The relation between islet associated amyloid polypeptide and diabetes mellitus is well known. Thus the conversion of fructose to GAG results in conformational disease and amyloid accumulation.

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The accumulation of fructose results in fructosylation of proteins akin to glycation of proteins. Fructosylated proteins are antigenic. This results in increased frequency of autoimmune diseases like lupus and multiple sclerosis. The conversion to glucose to fructose and its phosphorylation depletes the cell of ATP and results in membrane sodium potassium ATPase inhibition. This increases the intracellular calcium which releases neurotransmitters from presynaptic vesicles. Thus there is an increase in glutamate and monoaminergic transmission leading to schizophrenia and autism. The increase in intracellular calcium can open up the mitochondrial PT pore releasing cyto C which activates the caspase cascade and cell death. This produces neuronal degeneration.

The conversion of glucose to fructose and phosphorylation of fructose results in depletion of cellular ATP. This stops the phosphorylation of glucose by glucokinase and generation of glucose 6-phosphate stops. The glycolytic process, the TCA cycle and its coupling to mitochondrial oxidative phosphorylation is inhibited. The body depends upon fatty acids and amino acids for energetics. The body can survive only on a ketogenic diet. The accumulated glucose forms a substrate for utilisation by endosymbiotic archaea. The archaea have glycolytic pathway which can convert glucose to pyruvate. The pyruvate can

then enter the GABA shunt pathway generating succinyl CoA and glycine, the substrates for porphyrin synthesis by archaea and humans. Porphyrin supramolecular arrays or porphyrions can transfer electrons synthesizing ATP. The archaea also has a partial citric acid cycle and the pyruvate generated by archaeal glycolysis can enter the partial citric acid cycle. The citrate can be used for lipid synthesis. The acetyl CoA generated from pyruvate by archaea can be used for cholesterol synthesis. The archaea can catabolize cholesterol to generate energy. The cholesterol ring is oxidised to pyruvate and the side chain oxidised to butyrate and propionate. This can be used for mitochondrial generation of ATP. The pyruvate generated by archaeal glycolysis can also undergo a reverse citric acid cycle for carbon dioxide fixation akin to the Calvin cycle. Thus the archaeal glycolysis, partial citric acid cycle, reverse citric acid cycle of carbon dioxide fixation, cholesterol synthesis by the mevalonate and DXP pathway and cholesterol catabolism dominates. The fructose generated by conversion to glucose can enter the pentose phosphate pathway generating D xylulose phosphate and can be used to synthesize cholesterol. The archaeal pyruvate generated by glycolysis can also be converted to acetyl CoA which can enter the archaeal mevalonate pathway of cholesterol synthesis. Thus the archaea has got both pathway of cholesterol synthesis- the DXP pathway and mevalonate pathway. The fructose generated by conversion from glucose due to global warming enters the DXP pathway of cholesterol synthesis, the pentose phosphate pathway and nucleic acid synthesis and GAG synthesis. This can lead to multiple organ dysfunction with fibrosis and mucopolysaccharide accumulation which can be called as a Lemurian syndrome. The initial group of diseases EMF, CCP, MNG and mucoid angiopathy occur south of the equator in South India, South Africa and South America. The global warming related MEN is reported from Central America and South America. MEN belongs to the group of EMF, CCP, MNG and mucoid angiopathy. This can be called as the Lemurian syndrome as South Africa, South India, Australia and parts of South America were part of one single continental entity in the long past when Neanderthals exist. The global warming and resulting conversion of glucose to fructose results in depletion of ATP due to more efficient phosphorylation of fructose over glucose. This results in ineffective glucose phosphorylation and accumulation leading to archaeal growth. The accumulated fructose is converted to D xylulose phosphate and used for the DXP pathway of cholesterol synthesis by the archaea. The cholesterol is catabolized by the endosymbiotic actinidic archaea generating digoxin. The growth of actinidic archaea results in increased porphyrin synthesis and perception of low level electromagnetic fields by dipolar porphyrin mediated quantal systems. The digoxin induced membrane sodium potassium ATPase inhibition in the setting

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of dipolar porphyrins in the cell can produce a pumped phonon system of quantal perception. This results in atrophy of the prefrontal cortex and cerebellar dominance leading to neanderthalisation of the human brain. This results from endosymbiotic archaeal growth resulting from metabolonomics related to global warming. The same metabolonomics related to global warming results in the genesis of the Lemurian syndrome described above.

This syndrome can also be called as fructosemia or fructositis. Oxidative stress can induce aldose reductase and convert glucose to fructose. The endosymbiotic archaea synthesizes digoxin by cholesterol catabolism. Digoxin inhibits membrane sodium potassium ATPase and increases intracellular calcium opening up the mitochondrial PT pore. This produces mitochondrial dysfunction and oxidative stress. Oxidative stress can induce aldose reductase and convert all glucose to fructose. Fructose has got a low km value for ketokinase compared to glucose and is preferentially phosphorylated. The glucose remains unphosphorylated and the glycolytic scheme and its coupled mitochondrial oxidative phosphorylation is slowed down or inhibited. The mitochondrial ATP and citrate can inhibit the phosphofructokinase and glycolysis, but cannot inhibit fructokinase or aldose reductase. Therefore the conversion of glucose to fructose continues. The fructose generated can inhibit mitochondrial function leading to more oxidative stress and still further induction of aldose reductase. The efficient phosphorylation of fructose depletes the cell of ATP producing oxidative stress and induction of NFKB resulting in chronic inflammation. Oxidative stress due to depletion of ATP can produce still further induction of aldose reductase and generation of fructose. The depletion of ATP makes the patient fatigue. The increase in fructose inhibits satiety and the patient feeding behaviour is altered leading onto obesity. This leads to a metabolic syndrome X. Metabolic syndrome X is a fat storage syndrome akin to hibernation. The fructose that is generated is converted to alpha glycerophosphate which is used for triglyceride synthesis. Fructose consumption can increase triglyceride synthesis and fatty liver. The depleted ATP due to fructose phosphorylation generates AMP and ADP which is converted to uric acid by deaminases. Uric acid can inhibit mitochondrial function. Uric acid can contribute to insulin resistance and metabolic syndrome X. Uric acid can also produce endothelial dysfunction contributing to coronary artery disease and stroke. Uric acid inhibits aconitase which leads to accumulation of citrate. Uric acid can induce citrate lyase and fatty acyl CoA synthase leading onto fatty acid synthesis. The accumulated citrate can block the glycolytic pathway. The accumulated glucose gets converted to fructose by aldose reductase. Uric acid decreases reduced NADPH and oxidised NAD+. This affects the redox potential

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and leads to oxidative stress which further induces aldose reductase. Aldose reductase can be induced by hyperosmotic stress. This includes that created by hyperglycemia consequent to blockade of glucose phosphorylation as a result of selective fructose phosphorylation because of the low km value of fructose for ketokinase. The same mechanism operates in the dehydration induced by global warming. This leads to hyperosmolarity which induces aldose reductase. These mechanisms are similar to what happens in hibernation in animals. Hibernating animals develop a metabolic syndrome put on weight, store fat, increase triglycerides, develop fatty liver and develop insulin resistance. Hibernation and metabolic syndrome X are fat storage syndromes. The Neanderthals evolved in the cold Eurasian steppes and developed a hibernation syndrome similar to metabolic syndrome with fat storage. The stress of the ice age would have induced redox stress, induce aldose reductase and converted glucose to fructose. The fructose would have been selectively phosphorylated to fructose phosphate which would have entered the pentose phosphate pathway generating ribose for nucleic acid synthesis, the glucosamine pathway for glycosaminoglycan synthesis and/or converted to alpha glycerophosphate for fatty acid and triglyceride synthesis. Fructosemia can also affect brain function. Fructose can inhibit BDNF and inhibit cortical growth producing a cerebellar dominant brain and prefrontal cortex atrophy. This would have resulted in neanderthalisation of the brain. The conversion of fructose phosphate to ribose via the pentose phosphate pathway increases nucleic acid synthesis and cell proliferation. This leads to oncogenesis. The cell proliferation can also contribute to the bulky phenotype of the Neanderthal population. The fructokinase enzyme acts as an obesity switch. The opening of the obesity switch also contributes to the bulky phenotype Neanderthal population. The oxidative stress and osmotic stress of the ice age and global warming can induce aldose reductase mediated conversion of glucose to fructose via the enzyme sorbitol dehydrogenase. This also leads to induction of fructokinase, generation of fructose, fructosemia and fructositis. The increased fructose can fructosylate proteins producing antigenic proteins and autoimmune disease. Thus fructosemia can contribute to oncogenesis, metabolic syndrome X, neurodegeneration, psychiatric disorders like schizophrenia and autism as well as autoimmune disease. Fructosemia can contribute to insulin resistance. The selective phosphorylation of fructose owing to the low km value of ketokinase for fructose results in nonphosphorylation of glucose and hyperglycemia. Insulin resistance leads to further induction of aldose reductase and fructokinase. Fructose can produce ATP depletion and oxidative stress. Oxidative stress can induce NFKB producing chronic inflammation and TNF alpha can produce insulin resistance acting at the level of insulin receptor. The insulin

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resistance activates the aldose reductase fructokinase system still further which is also further activated by the osmotic and oxidative stress of extremes of climate like global warming and ice age. This leads to the Lemurian systemic syndrome of fructosemia and fructositis.

The fructose metabolic pathway is called fructolysis. Oxidative stress and osmotic stress due to global warming and actinidic archaeal growth leads to induction of aldose reductase. This converts glucose to sorbitol and sorbitol is acted upon by sorbitol dehydrogenase produce fructose. Fructose normally undergoes fructolysis. Glycolysis is inhibited at the level of phosphofructokinase by ATP and citrate. The fructolytic pathway and fructose metabolism is confined to the liver and certain tissues and is not under this regulatory control. Fructose is converted to fructose 1-phosphate by fructokinase. Fructose 1-phosphate is acted upon by aldolase B or fructose 1-phosphate aldolase converting it into dihydroxy acetone phosphate. Dihydroxy acetone phosphate has got two fates. It is acted upon by triose phosphate isomerase to glyceraldehyde 3-phosphate. Glyceraldehyde 3-phosphate is converted to glucose 6-phosphate and then glucose 1-phosphate. Glucose 1-phosphate is used for glycogenesis. Dihydroxy acetone phosphate is acted upon by glycerol 3-phosphate dehydrogenase to glycerol 3-phosphate. Fructose 1-phosphate can be oxidised to pyruvate. Pyruvate can be decarboxylated to acetyl CoA. Acetyl CoA is used for fatty acid and cholesterol synthesis. Thus leads to triglyceride synthesis and VLDL formation. Fructose can thus be converted to storage glycogen, triglycerides and cholesterol. Global warming and ice age are extremophilic states. The human body goes into a state of hibernation and stores nutrients as glycogen and triglycerides. Fructose can increase lypogenic enzymes pyruvate kinase, malate dehydrogenase, citrate lyase, acetyl CoA carboxylase, pyruvate dehydrogenase and fatty acid synthase. Thus the metabolism is switched to the hibernatory mode from glucose catabolism. Glucose catabolism stops. The glucose that accumulates enters the archaeal primitive glycolytic and partial citric acid cycle as well as the GABA shunt pathway. The GABA shunt pathway of the archaea generates succinyl CoA and glycine the substrates for the porphyrin synthesis. Porphyrins can self organise to form supramolecular structures which can self replicate called porphyrions. Porphyrions are the ultimate self replicators. They can have a photoinduction induced electron transport chain and ATP synthesis. The porphyrions are dipolar and in the setting of porphyrin intercalating cell membrane producing sodium potassium ATPase inhibition can produce a pumped phonon system. This is a superconductive state at room temperature and can produce quantal perception. The porphyrins are macromolecular structures with a wave-particular existence. Porphyrions are

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the ultimate quantal observer and mediate the conversion of the quantal foam to the particulate world. This global warming induced fructosemia and accumulated free glucose get catabolized by partial citric acid cycle and GABA shunt of archaea to porphyrins generating porphyrions which can assume the quantal foam state and inhabit a multiverse universe with an eternal existence. The porphyrions can undergo photooxidation generating redox stress. Redox stress will further induce aldose reductase and increase fructosemia. The glucose remains unphosphorylated owing to the high km value of glucose for ketokinase as compared to fructose. The free glucose is catabolized by archaeal enzymes to porphyrins and porphyrions. The human body becomes a zombie for self replicating porphyrions. The porphyrions have quantal perception of low level of EMF. This produces prefrontal cortex atrophy and cerebellar dominance leading to neanderthalisation of the human brain. The human metabolic pathways of glycolysis and oxidative phosphorylation are blocked. The synthesis of glycogen, lipids, cholesterol and glycosaminoglycans dominates. The body switches into the anabolic hibernatory mode. The fructokinase induced by osmotic stress and oxidative stress of global warming is the switch for hibernatory mode leading onto metabolic syndrome or fat storage disease. The free glucose undergoes catabolism by archaeal glycolysis and GABA shunt to porphyrions. The porphyrins can act as a template formation of RNA viroids, DNA viroids, prions and they eventually symbiosed and live together as nanoarchaea. Thus the nanoarchaea can arise from porphyrin templates. The supramolecular porphyrin arrays can have an electron transport chain and ATP synthesis, a primitive form of mitochondria. The nanoarchaea can form as well as self replicate on porphyrin templates. The porphyrin supramolecular arrays or porphyrions can also self replicate. The human body becomes a zombie for abiogenetic porphyrions and nanoarchaea. The porphyrions can have a macroscopic quantal existence and inhabit multiverse universes. Thus the human metabolism grinds to a halt and the world of nanoarchaea and porphyrions which are eternal steps in. The human race as we know of extincts owing to the metabolonomics of global warming. It is back to the work board of evolution once more.

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Global warming related hibernatory syndrome

The Neanderthals lived in the Eurasian Steppes which was cold. They evolved hibernatory metabolism and a fat storage syndrome to protect them from the cold. The Neanderthals evolved due to endosymbiotic archaeal growth. Endosymbiotic archaea are extremophiles and grow in extremes of climate – the ice age and global warming. The global warming results in increase in endosymbiotic archaeal growth and neanderthalisation of the

homo sapien species. Neanderthalisation is a symbiotic phenomenon. The global warming can lead to dehydration and osmotic stress. The archaea can catabolize cholesterol generating digoxin which can induce redox stress. Osmotic stress and redox stress leads to induction of the enzyme aldose reductase which converts glucose to sorbitol. Sorbitol is acted upon by sorbitol dehydrogenase and converted to fructose. Fructose can enter three metabolic schemes. The fructose is converted to alpha glycerophosphate and triglycerides. This results in storage of glucose and fructose as fat and a fat storage syndrome. The subcutaneous fat protects against variation in climatic temperature. The fructose can inhibit mitochondrial function and mitochondrial beta oxidation of fatty acids accentuating storage of fat. Fat can further fuel insulin resistance by fatty acids acting upon the insulin receptor. Insulin resistance leads to still further aldose reductase induction. The fructose can also enter the glucosamine pathway resulting in GAG synthesis and accumulation of mucopolysaccharides and proteoglycans. This can lead onto systemic connective tissue accumulation in visceral organs like liver producing cirrhosis, lung producing interstitial lung disease, kidney producing the MEN syndrome, the pancreas producing pancreatic fibrosis and CCP, the heart producing cardiomyopathy and EMF and the vascular tree producing mucoid angiopathy. The fructose has got a low km value for ketokinases as compared to glucose and gets selectively phosphorylated. This results in cellular depletion of ATP and membrane sodium potassium ATPase inhibition resulting in increase of intracellular calcium. The calcium produces mitochondrial PT pore dysfunction and redox stress. Redox stress can induce aldose reductase. The depletion of ATP results in further inhibition of phosphorylation of glucose. This results in hyperglycemia. The archaea has got the glycolytic pathway, a partial citric acid cycle and a reverse citric acid cycle for carbon dioxide fixation. The archaea can induce the Warburg phenotype in the human tissues with increase glycolysis, inhibition of pyruvate dehydrogenase and mitochondrial oxidative phosphorylation inhibition. This results in accumulation of pyruvate which enters the GABA shunt scheme generating succinyl CoA and glycine for porphyrin synthesis. The accumulated glucose due to blockade of glucose phosphorylation is metabolized by archaea generating pyruvate. The pyruvate can enter the TCA cycle via pyruvate dehydrogenase generating acetyl CoA for fatty acid and cholesterol synthesis. The archaea can catabolize cholesterol and generate energy. The archaea can convert pyruvate via GABA shunt as said before to porphyrins. Thus there is increased porphyrin synthesis, cholesterol synthesis and catabolism, triglyceride synthesis, nucleic acid synthesis and GAG synthesis. The metabolic patterns change. The blockade of glucose phosphorylation by fructose results in hyperglycemia which can block or inhibit porphyrin accumulation. The porphyrins have a wave particle existence in the macroscopic state and

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contribute to quantal perception or extrasensory perception in homo neanderthalis. The cellular depletion of ATP consequent to fructose phosphorylation results in generation of ADP and AMP which are acted upon by deaminases producing uric acid. Uric acid can block mitochondrial function generating redox stress and further induction of aldose reductase. Uric acid can inhibit the TCA cycle due to aconitase inhibition. This results in accumulation of citrate which blocks glycolysis still further. The citrate is acted upon by the induced citrate lyase and fatty acid synthase producing fatty acids. This can lead to triglyceride synthesis and accumulation and a fat storage syndrome. Fatty acids can block glucose metabolism and the glycolytic pathway. The mitochondrial function is blocked by uric acid, fructose and digoxin. The porphyrin arrays can function as a supramolecular organism called porphyrions and transfer electrons and photons. This functions as a primitive form of mitochondria generating ATP. The inhibition of membrane sodium potassium ATPase due to ATP depletion results in membrane sodium potassium ATPase mediated ATP synthesis. The porphyrin array and membrane sodium potassium ATPase mediated ATP synthesis can provide for body energetics. The fructosemia can lead to increased ribose synthesis via the pentose phosphate pathway inducing nucleic acid synthesis and cell proliferation. This can lead to oncogenesis. The fructosemia can lead to fructosylation of proteins producing antigenic proteins. The depletion of ATP consequent to fructose phosphorylation can produce redox stress, NFKB activation and immune activation. This leads to autoimmune disease. Fructose can inhibit brain derived neurotrophic growth factor and lead to genesis of schizophrenia and autism. The cellular depletion of ATP due to fructose phosphorylation can lead to cell death and neurodegeneration. The low km value of fructose for ketokinase can lead to selective phosphorylation of fructose at a rapid rate depleting the cell of ATP stores. This inhibits glucose phosphorylation producing inhibition of glucose metabolism resulting in hyperglycemia and metabolic syndrome. The uric acid generated by this pathway can result in endothelial dysfunction, coronary artery disease and strokes. Thus the global warming related actinidic archaeal growth can lead onto fructositis, fructosemia and a Lemurian syndrome affecting multiple organ systems.

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CHAPTER 21

QUANTAL CIVILIZATION - PORPHYRIONS AND QUANTAL PERCEPTION - ROLE OF PORPHYRINS IN ENVIRONMENTAL COMMUNICATION

Introduction

The porphyrins are tetrapyrolle rings which self organize and can self replicate. The porphyrin arrays which can function as a supramolecular organism the self replicatory features. Porphyrin arrays can form templates on which other porphyrin arrays can form. Such self replicatory supramolecular porphyrin arrays can be called as porphyrions. The stress of global warming converts the body into a porphyrion colony or network. The porphyrins have got macroscopic wave-particle existence. The porphyrins have also magnetic properties because of the iron centre. The porphyrin arrays can exist as quantal wave arrays as part of quantal form functioning as quantal computers capable of information storage and self replication. This could be a form of quantal life. The human consciousness depends upon three factors: perceptual synchronization, focused attention and working memory. Gravitational waves could form the basis of consciousness. Similarly, the human unconscious could be structured by anti-gravity. The porphyrions play a role in consciousness and in the creation of the universe.

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The global warming results in channelling of metabolism to porphyrin synthesis by induction of HO1 activity. The human body gets converted into a colony of porphyrions which have a wave-particle existence. The human body in its porphyrions incarnation especially in its wave form can disappear from existence. The human populations by this mechanism can get converted into a civilization in the quantal world and live in multiple parallel universes for eternity. The quantal wave form of porphyrions by the mechanism of observation by gravitons of the conscious gravitational fields can come into macroscopic existence. The porphyrins can form a template on which isoprenoid organism, RNA viroids, DNA viroids and prions can form. They can self organise to form nanoarchaea and later eukaryotes, prokaryotes, multicellular organisms leading upto primates and humans. This forms the basis of the origin of endosymbiotic actinide dependent cholesterol catabolizing archaea in humans. The human civilization can arise from the nothingness of the quantal foam of gravitational waves mediating consciousness and disappear into nothingness.

The star systems and the sun produce low level of electromagnetic fields which can affect the human brain. Low level of EMF can affect brain metabolism through

endosymbiotic actinidic archaea. Actinidic archaea has been described as endosymbionts in humans. Actinidic archaea has been described as endosymbionts in humans. Actinidic archaea have a mevalonate pathway and are cholesterol catabolizing. They can use cholesterol as a carbon and energy source. Archaeal cholesterol catabolism can generate porphyrins via the cholesterol ring oxidase generated pyruvate and GABA shunt pathway. Archaea can produce a secondary porphyria by inducing the enzyme heme oxygenase resulting in heme depletion and activation of the enzyme ALA synthase. The archaea can induce the enzyme heme oxygenase resulting in depletion of heme and induction of ALA synthase. This can lead to porphyrinogenesis. Low level of electromagnetic fields and geomagnetic fields can induce porphyrin synthesis by inhibiting the enzyme ferrochelatase which has got a ferromagnetic core. Inhibition of ferrochelatase produces deficiency of heme resulting in induction of ALA synthase. Low level of EMF can also induce heme oxygenase depleting heme and inducing ALA synthase. Porphyrins can undergo autooxidation generating biophotons and a quantal state. Porphyrin autooxidation is modulated by low level of electromagnetic fields and geomagnetic fields. Porphyrin microarrays can function as quantal computers storing information and can serve the purpose of extrasensory perception. Porphyrins can serve as a two-way communicating bridge between digital information storage systems generating low level electromagnetic fields and human systems. The low level of EMF produced by digital system enhances porphyrin synthesis and serves the purpose of two-way extrasensory perception and communication. The porphyrin quantal computers can in turn by biophoton emission modulate digital information storage system. Actinidic archaea have been related to the pathogenesis of schizophrenia, malignancy, metabolic syndrome x, autoimmune disease and neuronal degeneration. An actinide dependent shadow biosphere of archaea and viroids in the above mentioned disease states is described. Porphyrins have been related to schizophrenia, metabolic syndrome x, malignancy, systemic lupus erythematosis, multiple sclerosis and Alzheimer's diseases. Porphyrins can mediate the pathogenesis of low level electromagnetic fields inducing the above mentioned disease states. A hypothesis regarding the role of porphyrins and quantal perception as well as the role of porphyrins in environmental communication/modulation of digital information storage/processing system is presented. They can function as self replicating supramolecular organisms which can be called as porphyrions. The porphyrions are self replicating supramolecular organisms which forms the precursor template on which the viroids, prions and nanoarchaea originate. Stress induced template directed abiogenesis of porphyrions, prions, viroids and archaea is a continuous process and can contribute to changes in brain

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structure and behavior as well as disease process. The relationship between low level of electromagnetic fields and human disease is highlighted.[1-5]

The quantal state merges with the macroscopic world in panpsychism. The quantal state can have the simultaneous presence of the past, present and future. This forms the basis of astrology or Jyotisha formulated by Bhrigu. The star systems and the sun produce low level of electromagnetic fields which can affect the human brain. Low level of EMF can affect brain metabolism through endosymbiotic actinidic archaea. Actinidic archaea has been described as endosymbionts in humans. Actinidic archaea have a mevalonate pathway and are cholesterol catabolising. They can use cholesterol as a carbon and energy source. Archaeal cholesterol catabolism can generate porphyrins via the cholesterol ring oxidase generated pyruvate and GABA shunt pathway. Archaea can produce a secondary porphyria by inducing the enzyme heme oxygenase resulting in heme depletion and activation of the enzyme ALA synthase. The archaea can induce the enzyme heme oxygenase resulting in depletion of heme and induction of ALA synthase. This can lead to porphyrinogenesis. Low level of electromagnetic fields and geomagnetic fields can induce porphyrin synthesis by inhibiting the enzyme ferrochelatase which has got a ferromagnetic core. Inhibition of ferrochelatase produces deficiency of heme resulting in induction of ALA synthase. Low level of EMF can also induce heme oxygenase depleting heme and inducing ALA synthase. Porphyrins can undergo autooxidation generating biophotons and a quantal state. Porphyrin autooxidation is modulated by low level of electromagnetic fields and geomagnetic fields. Porphyrin microarrays can function as quantal computers storing information and can serve the purpose of extrasensory perception. Porphyrins can serve as a two-way communicating bridge between digital information storage systems generating low level electromagnetic fields and human systems. The low level of EMF produced by digital system enhances porphyrin synthesis and serves the purpose of two-way extrasensory perception and communication. The porphyrin quantal computers can in turn by biophoton emission modulate digital information storage system. Actinidic archaea have been related to the pathogenesis of schizophrenia, malignancy, metabolic syndrome x, autoimmune disease and neuronal degeneration. An actinide dependent shadow biosphere of archaea and viroids in the above mentioned disease states is described. Porphyrins have been related to schizophrenia, metabolic syndrome x, malignancy, systemic lupus erythematosis, multiple sclerosis and Alzheimer's diseases. Porphyrins can mediate the pathogenesis of low level electromagnetic fields inducing the above mentioned disease states. A hypothesis regarding the role of porphyrins and quantal perception as well as the role of porphyrins in environmental

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communication/modulation of digital information storage/processing system is presented. The relationship between low level of electromagnetic fields and human disease is highlighted.[1-5]

Materials and Methods

The following groups were included in the study:- endomyocardial fibrosis, Alzheimer's disease, multiple sclerosis, non-Hodgkin's lymphoma, metabolic syndrome x with cerebrovascular thrombosis and coronary artery disease, schizophrenia, autism, seizure disorder, Creutzfeldt Jakob's disease and acquired immunodeficiency syndrome. There were 10 patients in each group and each patient had an age and sex matched healthy control selected randomly from the general population. There were also 10 normal people with right hemispheric dominance, left hemispheric dominance and bi-hemispheric dominance included in the study selected from the normal population. The blood samples were drawn in the fasting state before treatment was initiated. Plasma from fasting heparinised blood was used and the experimental protocol was as follows:- (I) Plasma+phosphate buffered saline, (II) same as I+cholesterol substrate, (III) same as II+rutile 0.1 mg/ml, and (IV) same as II+ciprofloxacine and doxycycline each in a concentration of 1 mg/ml. Cholesterol substrate was prepared as described by Richmond. Aliquots were withdrawn at zero time immediately after mixing and after incubation at 37 ^{o}C for 1 hour. The following estimations were carried out:- Cytochrome F420, free RNA, free DNA, polycyclic aromatic hydrocarbon, hydrogen peroxide, pyruvate, ammonia, glutamate, delta aminolevulinic acid, succinate, glycine and digoxin. Cytochrome F420 was estimated flourimetrically (excitation wavelength 420 nm and emission wavelength 520 nm). Polycyclic aromatic hydrocarbon was estimated by measuring hydrogen peroxide liberated by using glucose reagent. The study also involved estimating the following parameters in the patient population- digoxin, bile acid, hexokinase, porphyrins, pyruvate, glutamate, ammonia, acetyl CoA, acetyl choline, HMG CoA reductase, cytochrome C, blood ATP, ATP synthase, ERV RNA (endogenous retroviral RNA), H_2O_2 (hydrogen peroxide), NOX (NADPH oxidase), TNF alpha and heme oxygenase.[6-9] Informed consent of the subjects and the approval of the ethics committee were obtained for the study. The statistical analysis was done by ANOVA.

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Results

Plasma of control subjects showed increased levels of the above mentioned parameters with after incubation for 1 hour and addition of cholesterol substrate resulted in

still further significant increase in these parameters. The plasma of patients and those with exposure to low level of EMF showed similar results but the extent of increase was more. The addition of antibiotics to the control plasma caused a decrease in all the parameters while addition of rutile increased their levels. The addition of antibiotics to the patient's plasma and those with exposure to low level of EMF caused a decrease in all the parameters while addition of rutile increased their levels but the extent of change was more in patient's sera as compared to controls. The results are expressed in tables section 1: 1-6 as percentage change in the parameters after 1 hour incubation as compared to the values at zero time. There was upregulated archaeal porphyrin synthesis in the patient population and those with exposure to low level of EMF which was archaeal in origin as indicated by actinide catalysis of the reactions. The cholesterol oxidase pathway generated pyruvate which entered the GABA shunt pathway. This resulted in synthesis of succinate and glycine which are substrates for ALA synthase.

The study showed the patient's blood, those with exposure to low level of EMF and right hemispheric dominance had increased heme oxygenase activity and porphyrins. The hexokinase activity was high. The pyruvate, glutamate and ammonia levels were elevated indicating blockade of PDH activity, and operation of the GABA shunt pathway. The acetyl CoA levels were low and acetyl choline was decreased. The cyto C levels were increased in the serum indicating mitochondrial dysfunction suggested by low blood ATP levels. This was indicative of the Warburg's phenotype. There was increased NOX and TNF alpha level indicating immune activation. The HMG CoA reductase activity was high indicating cholesterol synthesis. The bile acid levels were low indicating depletion of cytochrome P450. The normal population with right hemispheric dominance had values resembling the patient population with increased porphyrin synthesis. The normal population with left hemispheric dominance had low values with decreased porphyrin synthesis.

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Section 1: Experimental study

Table 1. Effect of rutile and antibiotics on cytochrome F420 and PAH

Group	CYT F420 % (Increase with Rutile)		CYT F420 % (Decrease with Doxy+Cipro)		PAH % change (Increase with Rutile)		PAH % change (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.48	0.15	18.24	0.66	4.45	0.14	18.25	0.72
Schizo	23.24	2.01	58.72	7.08	23.01	1.69	59.49	4.30
Seizure	23.46	1.87	59.27	8.86	22.67	2.29	57.69	5.29
AD	23.12	2.00	56.90	6.94	23.26	1.53	60.91	7.59
MS	22.12	1.81	61.33	9.82	22.83	1.78	59.84	7.62
NHL	22.79	2.13	55.90	7.29	22.84	1.42	66.07	3.78
DM	22.59	1.86	57.05	8.45	23.40	1.55	65.77	5.27
AIDS	22.29	1.66	59.02	7.50	23.23	1.97	65.89	5.05
CJD	22.06	1.61	57.81	6.04	23.46	1.91	61.56	4.61
Autism	21.68	1.90	57.93	9.64	22.61	1.42	64.48	6.90
Low level EMF	22.70	1.87	60.46	8.06	23.73	1.38	65.20	6.20
F value	306.749		130.054		391.318		257.996	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 2. Effect of rutile and antibiotics on free RNA and DNA

Group	DNA % change (Increase with Rutile)		DNA % change (Decrease with Doxy+Cipro)		RNA % change (Increase with Rutile)		RNA % change (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.37	0.15	18.39	0.38	4.37	0.13	18.38	0.48
Schizo	23.28	1.70	61.41	3.36	23.59	1.83	65.69	3.94
Seizure	23.40	1.51	63.68	4.66	23.08	1.87	65.09	3.48
AD	23.52	1.65	64.15	4.60	23.29	1.92	65.39	3.95
MS	22.62	1.38	63.82	5.53	23.29	1.98	67.46	3.96
NHL	22.42	1.99	61.14	3.47	23.78	1.20	66.90	4.10
DM	23.01	1.67	65.35	3.56	23.33	1.86	66.46	3.65
AIDS	22.56	2.46	62.70	4.53	23.32	1.74	65.67	4.16
CJD	23.30	1.42	65.07	4.95	23.11	1.52	66.68	3.97
Autism	22.12	2.44	63.69	5.14	23.33	1.35	66.83	3.27
Low level EMF	22.29	2.05	58.70	7.34	22.29	2.05	67.03	5.97
F value	337.577		356.621		427.828		654.453	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 3. Effect of rutile and antibiotics on digoxin and delta aminolevulinic acid

Group	Digoxin (ng/ml) (Increase with Rutile)		Digoxin (ng/ml) (Decrease with Doxy+Cipro)		ALA % (Increase with Rutile)		ALA % (Decrease with Doxy+Cipro)	
	Mean	± SD	Mean	± SD	Mean	± SD	Mean	± SD
Normal	0.11	0.00	0.054	0.003	4.40	0.10	18.48	0.39
Schizo	0.55	0.06	0.219	0.043	22.52	1.90	66.39	4.20
Seizure	0.51	0.05	0.199	0.027	22.83	1.90	67.23	3.45
AD	0.55	0.03	0.192	0.040	23.67	1.68	66.50	3.58
MS	0.52	0.03	0.214	0.032	22.38	1.79	67.10	3.82
NHL	0.54	0.04	0.210	0.042	23.34	1.75	66.80	3.43
DM	0.47	0.04	0.202	0.025	22.87	1.84	66.31	3.68
AIDS	0.56	0.05	0.220	0.052	23.45	1.79	66.32	3.63
CJD	0.53	0.06	0.212	0.045	23.17	1.88	68.53	2.65
Autism	0.53	0.08	0.205	0.041	23.20	1.57	66.65	4.26
Low level EMF	0.51	0.05	0.213	0.033	22.29	2.05	61.91	7.56
F value	135.116		71.706		372.716		556.411	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 4. Effect of rutile and antibiotics on succinate and glycine

Group	Succinate % (Increase with Rutile)		Succinate % (Decrease with Doxy+Cipro)		Glycine % change (Increase with Rutile)		Glycine % change (Decrease with Doxy+Cipro)	
	Mean	± SD	Mean	± SD	Mean	± SD	Mean	± SD
Normal	4.41	0.15	18.63	0.12	4.34	0.15	18.24	0.37
Schizo	22.76	2.20	67.63	3.52	22.79	2.20	64.26	6.02
Seizure	22.28	1.52	64.05	2.79	22.82	1.56	64.61	4.95
AD	23.81	1.90	66.95	3.67	23.12	1.71	65.12	5.58
MS	24.10	1.61	65.78	4.43	22.73	2.46	65.87	4.35
NHL	23.43	1.57	66.30	3.57	22.98	1.50	65.13	4.87
DM	23.70	1.75	68.06	3.52	23.81	1.49	64.89	6.01
AIDS	23.66	1.67	65.97	3.36	23.09	1.81	65.86	4.27
CJD	22.92	2.14	67.54	3.65	21.93	2.29	63.70	5.63
Autism	21.88	1.19	66.28	3.60	23.02	1.65	67.61	2.77
Low level EMF	22.29	1.33	65.38	3.62	22.13	2.14	66.26	3.93
F value	403.394		680.284		348.867		364.999	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 5. Effect of rutile and antibiotics on pyruvate and glutamate

Group	Pyruvate % change (Increase with Rutile)		Pyruvate % change (Decrease with Doxy+Cipro)		Glutamate (Increase with Rutile)		Glutamate (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.34	0.21	18.43	0.82	4.21	0.16	18.56	0.76
Schizo	20.99	1.46	61.23	9.73	23.01	2.61	65.87	5.27
Seizure	20.94	1.54	62.76	8.52	23.33	1.79	62.50	5.56
AD	22.63	0.88	56.40	8.59	22.96	2.12	65.11	5.91
MS	21.59	1.23	60.28	9.22	22.81	1.91	63.47	5.81
NHL	21.19	1.61	58.57	7.47	22.53	2.41	64.29	5.44
DM	20.67	1.38	58.75	8.12	23.23	1.88	65.11	5.14
AIDS	21.21	2.36	58.73	8.10	21.11	2.25	64.20	5.38
CJD	21.07	1.79	63.90	7.13	22.47	2.17	65.97	4.62
Autism	21.91	1.71	58.45	6.66	22.88	1.87	65.45	5.08
Low level EMF	22.29	2.05	62.37	5.05	21.66	1.94	67.03	5.97
F value	321.255		115.242		292.065		317.966	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 6. Effect of rutile and antibiotics on hydrogen peroxide and ammonia

Group	H_2O_2 % (Increase with Rutile)		H_2O_2 % (Decrease with Doxy+Cipro)		Ammonia % (Increase with Rutile)		Ammonia % (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.43	0.19	18.13	0.63	4.40	0.10	18.48	0.39
Schizo	22.50	1.66	60.21	7.42	22.52	1.90	66.39	4.20
Seizure	23.81	1.19	61.08	7.38	22.83	1.90	67.23	3.45
AD	22.65	2.48	60.19	6.98	23.67	1.68	66.50	3.58
MS	21.14	1.20	60.53	4.70	22.38	1.79	67.10	3.82
NHL	23.35	1.76	59.17	3.33	23.34	1.75	66.80	3.43
DM	23.27	1.53	58.91	6.09	22.87	1.84	66.31	3.68
AIDS	23.32	1.71	63.15	7.62	23.45	1.79	66.32	3.63
CJD	22.86	1.91	63.66	6.88	23.17	1.88	68.53	2.65
Autism	23.52	1.49	63.24	7.36	23.20	1.57	66.65	4.26
Low level EMF	23.29	1.67	60.52	5.38	22.29	2.05	61.91	7.56
F value	380.721		171.228		372.716		556.411	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Section 2: Patient study

Table 1

Group	RBC Digoxin (ng/ml RBC Susp)		Cytochrome F 420		HERV RNA (ug/ml)		H_2O_2 (umol/ml RBC)	
	Mean	± SD	Mean	± SD	Mean	± SD	Mean	± SD
NO/BHCD	0.58	0.07	1.00	0.00	17.75	0.72	177.43	6.71
RHCD	1.41	0.23	4.00	0.00	55.17	5.85	278.29	7.74
LHCD	0.18	0.05	0.00	0.00	8.70	0.90	111.63	5.40
Schizo	1.38	0.26	4.00	0.00	51.17	3.65	274.88	8.73
Seizure	1.23	0.26	4.00	0.00	50.04	3.91	278.90	11.20
HD	1.34	0.31	4.00	0.00	51.16	7.78	295.37	3.78
AD	1.10	0.08	4.00	0.00	51.56	3.69	277.47	10.90
MS	1.21	0.21	4.00	0.00	47.90	6.99	280.89	11.25
SLE	1.50	0.33	4.00	0.00	48.20	5.53	278.59	11.51
NHL	1.26	0.23	4.00	0.00	51.08	5.24	283.39	10.67
Glio	1.27	0.24	4.00	0.00	51.57	2.66	278.19	12.80
DM	1.35	0.26	4.00	0.00	51.98	5.05	280.89	10.58
CAD	1.22	0.16	4.00	0.00	50.00	5.91	280.89	13.79
CVA	1.33	0.27	4.00	0.00	51.06	4.83	287.33	9.47
AIDS	1.31	0.24	4.00	0.00	50.15	6.96	278.58	12.72
CJD	1.48	0.27	4.00	0.00	49.85	6.40	286.16	10.90
Autism	1.19	0.24	4.00	0.00	52.87	7.04	274.52	9.29
DS	1.34	0.25	4.00	0.00	47.28	3.55	283.04	9.17
Cerebral Palsy	1.44	0.19	4.00	0.00	53.49	4.15	273.70	12.37
CRF	1.26	0.26	4.00	0.00	49.39	5.51	285.51	8.79
Cirr/Hep Fail	1.50	0.20	4.00	0.00	46.82	4.73	275.97	10.66
Muc Angio	1.40	0.32	4.00	0.00	46.37	4.87	290.37	9.10
EMF	1.51	0.29	4.00	0.00	47.47	4.34	287.49	9.81
CCP	1.35	0.22	4.00	0.00	48.54	5.97	277.50	7.51
Exposure to EMF	1.41	0.30	4.00	0.00	51.01	4.77	276.49	10.92
F value	60.288		0.001		194.418		713.569	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 2

Group	NOX (OD diff/hr/mgpro)		TNF ALP (pg/ml)		ALA (umol24)		PBG (umol24)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
NO/BHCD	0.012	0.001	17.94	0.59	15.44	0.50	20.82	1.19
RHCD	0.036	0.008	78.63	5.08	63.50	6.95	42.20	8.50
LHCD	0.007	0.001	9.29	0.81	3.86	0.26	12.11	1.34
Schizo	0.036	0.009	78.23	7.13	66.16	6.51	42.50	3.23
Seizure	0.038	0.007	79.28	4.55	68.28	6.02	46.54	4.55
HD	0.035	0.011	82.13	3.97	67.30	5.98	47.25	4.19
AD	0.036	0.007	79.65	5.57	67.32	5.40	49.83	3.45
MS	0.034	0.009	80.18	5.67	64.00	7.33	46.85	3.49
SLE	0.038	0.008	81.03	6.22	65.01	5.42	48.55	3.81
NHL	0.041	0.006	77.98	5.68	63.21	6.55	47.17	4.86
Glio	0.038	0.007	79.18	5.88	67.67	5.69	46.84	4.43
DM	0.041	0.005	78.36	6.68	64.72	6.81	48.15	3.36
CAD	0.038	0.009	78.15	3.72	66.66	7.77	47.00	3.81
CVA	0.037	0.007	77.59	5.24	69.02	4.86	46.33	4.01
AIDS	0.039	0.010	79.17	5.88	67.78	4.41	48.03	3.64
CJD	0.039	0.006	80.41	5.70	66.99	3.71	47.94	5.33
Autism	0.036	0.006	76.71	5.25	68.16	4.92	42.04	2.38
DS	0.035	0.009	80.30	6.65	64.99	6.72	45.69	4.18
Cerebral Palsy	0.038	0.008	80.02	6.82	65.56	6.28	44.58	4.52
CRF	0.039	0.008	81.36	5.37	67.61	5.55	46.81	4.62
Cirr/Hep Fail	0.037	0.010	77.61	4.42	66.28	6.55	48.23	2.36
Muc Angio	0.039	0.010	79.38	5.14	67.86	5.65	44.08	2.81
EMF	0.035	0.008	80.04	4.69	64.76	5.23	44.82	3.46
CCP	0.040	0.006	80.34	4.73	66.68	4.14	48.70	3.35
Exposure to EMF	0.038	0.007	76.41	5.96	68.41	5.53	47.27	3.42
F value	44.896		427.654		295.467		183.296	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 3

Group	Uroporphyrin (nmol24)		Coproporphyrin (nmol/24)		Protoporphyrin (Ab unit)		Heme (uM)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
NO/BHCD	50.18	3.54	137.94	4.75	10.35	0.38	30.27	0.81
RHCD	250.28	23.43	389.01	54.11	42.46	6.36	12.47	2.82
LHCD	9.51	1.19	64.33	13.09	2.64	0.42	50.55	1.07
Schizo	267.81	64.05	401.49	50.73	44.30	2.66	12.82	2.40
Seizure	290.44	57.65	436.71	52.95	49.59	1.70	13.03	0.70
HD	286.84	24.18	432.22	50.11	49.36	4.18	11.81	0.80
AD	259.61	33.18	433.17	45.61	49.68	3.30	12.09	1.12
MS	277.36	15.48	440.35	25.34	50.81	3.21	11.87	1.84
SLE	294.51	58.62	447.39	39.84	52.94	3.67	12.95	1.53
NHL	310.25	40.44	495.98	39.11	54.80	4.04	11.76	1.37
Glio	304.19	14.16	479.35	58.86	53.73	5.34	13.68	1.67
DM	285.46	29.46	422.27	33.86	49.80	4.01	12.83	2.07
CAD	314.01	17.82	426.14	24.28	49.51	2.27	11.39	1.10
CVA	320.85	24.73	402.16	33.80	46.74	4.28	11.26	0.95
AIDS	306.61	22.47	429.72	24.97	49.32	5.13	11.60	1.23
CJD	317.92	29.63	429.24	18.29	50.02	4.58	11.76	1.32
Autism	318.84	82.90	423.29	47.57	47.50	2.87	12.37	2.09
DS	258.33	37.85	421.52	36.57	50.97	7.07	11.81	1.14
Cerebral Palsy	280.16	26.14	431.39	28.88	49.23	3.91	11.61	1.36
CRF	301.78	48.22	427.57	33.55	49.66	4.41	12.03	1.40
Cirr/Hep Fail	276.51	16.66	436.44	25.65	50.56	1.63	11.92	1.33
Muc Angio	303.86	13.91	441.58	25.51	47.86	3.34	12.13	1.10
EMF	300.90	31.96	443.22	38.14	51.37	4.86	12.61	2.00
CCP	287.09	15.63	442.85	49.61	50.36	3.49	12.01	1.53
Exposure to EMF	288.21	26.17	444.94	38.89	50.59	1.71	12.36	1.26
F value	160.533		279.759		424.198		1472.05	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 4

Group	Bilirubin (mg/dl)		Biliverdin (Ab unit)		ATP Synthase (umol/gHb)		SE ATP (umol/dl)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
NO/BHCD	0.55	0.02	0.030	0.001	0.36	0.13	0.42	0.11
RHCD	1.70	0.20	0.067	0.011	2.73	0.94	2.24	0.44
LHCD	0.21	0.00	0.017	0.001	0.09	0.01	0.02	0.01
Schizo	1.74	0.08	0.073	0.013	2.66	0.58	1.26	0.19
Seizure	1.84	0.07	0.070	0.015	3.09	0.65	1.66	0.56
HD	1.83	0.09	0.071	0.014	3.34	0.84	1.27	0.26
AD	1.77	0.13	0.073	0.016	3.34	0.75	2.06	0.19
MS	1.81	0.10	0.079	0.007	3.05	0.52	1.63	0.26
SLE	1.82	0.08	0.061	0.006	2.85	0.34	1.59	0.22
NHL	1.84	0.08	0.077	0.011	3.01	0.55	1.73	0.26
Glio	1.76	0.11	0.073	0.012	2.70	0.62	1.48	0.32
DM	1.77	0.19	0.067	0.014	3.19	0.89	1.97	0.11
CAD	1.75	0.12	0.080	0.007	2.99	0.65	1.57	0.37
CVA	1.82	0.10	0.079	0.009	2.98	0.78	1.49	0.27
AIDS	1.79	0.08	0.072	0.013	3.29	0.63	1.59	0.38
CJD	1.82	0.09	0.066	0.009	3.21	0.95	1.69	0.43
Autism	1.83	0.16	0.072	0.014	2.67	0.80	2.03	0.12
DS	1.85	0.07	0.071	0.015	3.15	0.73	1.17	0.11
Cerebral Palsy	1.85	0.09	0.069	0.012	3.14	0.46	1.56	0.39
CRF	1.76	0.22	0.070	0.012	3.14	0.57	1.53	0.33
Cirr/Hep Fail	1.81	0.10	0.076	0.009	3.01	0.47	1.32	0.26
Muc Angio	1.78	0.24	0.067	0.014	2.92	0.55	1.35	0.29
EMF	1.79	0.07	0.074	0.009	3.12	0.60	1.56	0.48
CCP	1.84	0.07	0.073	0.011	3.15	0.46	1.51	0.38
Exposure to EMF	1.75	0.22	0.073	0.013	3.39	1.03	1.37	0.27
F value	370.517		59.963		54.754		67.588	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 5

Group	Cyto C (ng/ml)		Lactate (mg/dl)		Pyruvate (umol/l)		RBC Hexokinase (ug glu phos/ hr/mgpro)	
	Mean	± SD	Mean	± SD	Mean	± SD	Mean	± SD
NO/BHCD	2.79	0.28	7.38	0.31	40.51	1.42	1.66	0.45
RHCD	12.39	1.23	25.99	8.10	100.51	12.32	5.46	2.83
LHCD	1.21	0.38	2.75	0.41	23.79	2.51	0.68	0.23
Schizo	11.58	0.90	22.07	1.06	96.54	9.96	7.69	3.40
Seizure	12.06	1.09	21.78	0.58	90.46	8.30	6.29	1.73
HD	12.65	1.06	24.28	1.69	95.44	12.04	9.30	3.98
AD	11.94	0.86	22.04	0.64	97.26	8.26	8.46	3.63
MS	11.81	0.67	23.32	1.10	102.48	13.20	8.56	4.75
SLE	11.73	0.56	23.06	1.49	100.51	9.79	8.02	3.01
NHL	11.91	0.49	22.83	1.24	95.81	12.18	7.41	4.22
Glio	13.00	0.42	22.20	0.85	96.58	8.75	7.82	3.51
DM	12.95	0.56	25.56	7.93	96.30	10.33	7.05	1.86
CAD	11.51	0.47	22.83	0.82	97.29	12.45	8.88	3.09
CVA	12.74	0.80	23.03	1.26	103.25	9.49	7.87	2.72
AIDS	12.29	0.89	24.87	4.14	95.55	7.20	9.84	2.43
CJD	12.19	1.22	23.02	1.61	96.50	5.93	8.81	4.26
Autism	12.48	0.79	21.95	0.65	92.71	8.43	6.95	2.02
DS	12.79	1.15	23.69	2.19	91.81	4.12	8.68	2.60
Cerebral Palsy	12.14	1.30	23.12	1.81	95.33	11.78	7.92	3.32
CRF	12.66	1.01	23.42	1.20	97.38	10.76	7.75	3.08
Cirr/Hep Fail	12.81	0.90	26.20	5.29	97.77	13.24	8.99	3.27
Muc Angio	12.84	0.74	23.64	1.43	96.19	12.15	10.12	1.75
EMF	12.72	0.92	25.35	5.52	103.32	13.04	9.44	3.40
CCP	12.23	0.94	23.66	1.64	94.36	8.06	8.53	2.64
Exposure to EMF	12.26	1.00	23.31	1.46	103.28	11.47	7.58	3.09
F value	445.772		162.945		154.701		18.187	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 6

Group	ACOA (mg/dl)		ACH (ug/ml)		Glutamate (mg/dl)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
NO/BHCD	8.75	0.38	75.11	2.96	0.65	0.03
RHCD	2.51	0.36	38.57	7.03	3.19	0.32
LHCD	16.49	0.89	91.98	2.89	0.16	0.02
Schizo	2.51	0.57	48.52	6.28	3.41	0.41
Seizure	2.15	0.22	33.27	5.99	3.67	0.38
HD	1.95	0.06	35.02	5.85	3.14	0.32
AD	2.19	0.15	42.84	8.26	3.53	0.39
MS	2.03	0.09	39.99	12.61	3.58	0.36
SLE	2.54	0.38	49.30	7.26	3.37	0.38
NHL	2.30	0.26	50.58	3.82	3.48	0.46
Glio	2.34	0.43	42.51	11.58	3.28	0.39
DM	2.17	0.40	41.31	10.69	3.53	0.44
CAD	2.37	0.44	49.19	6.86	3.61	0.28
CVA	2.25	0.44	37.45	7.93	3.31	0.43
AIDS	2.11	0.19	38.40	7.74	3.45	0.49
CJD	2.10	0.27	34.97	4.24	3.94	0.22
Autism	2.42	0.41	50.61	6.32	3.30	0.32
DS	2.01	0.08	39.34	8.15	3.30	0.48
Cerebral Palsy	2.06	0.35	40.79	9.34	3.24	0.34
CRF	2.24	0.32	37.52	4.37	3.26	0.43
Cirr/Hep Fail	2.13	0.17	46.20	4.95	3.25	0.40
Muc Angio	2.51	0.42	45.51	7.56	3.11	0.36
EMF	2.19	0.19	42.48	8.62	3.27	0.39
CCP	2.04	0.10	37.95	8.82	3.33	0.25
Exposure to EMF	2.14	0.19	37.75	7.31	3.47	0.37
F value	1871.04		116.901		200.702	
P value	< 0.001		< 0.001		< 0.001	

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Table 7

Group	Se. Ammonia (ug/dl)		HMG Co A (HMG CoA/MEV)		Bile Acid (mg/ml)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
NO/BHCD	50.60	1.42	1.70	0.07	79.99	3.36
RHCD	93.43	4.85	1.16	0.10	25.68	7.04
LHCD	23.92	3.38	2.21	0.39	140.40	10.32
Schizo	94.72	3.28	1.11	0.08	22.45	5.57
Seizure	95.61	7.88	1.14	0.07	22.98	5.19
HD	94.60	8.52	1.08	0.13	28.93	4.93
AD	95.37	4.66	1.10	0.07	26.26	7.34
MS	93.42	3.69	1.13	0.08	24.12	6.43
SLE	101.18	17.06	1.14	0.07	19.62	1.97
NHL	91.62	3.24	1.12	0.10	23.45	5.01
Glio	93.20	4.46	1.10	0.09	23.43	6.03
DM	93.38	7.76	1.09	0.12	22.77	4.94
CAD	93.93	4.86	1.07	0.12	24.55	6.26
CVA	103.18	27.27	1.05	0.09	22.39	3.35
AIDS	92.47	3.97	1.08	0.11	23.28	5.81
CJD	93.13	5.79	1.09	0.12	21.26	4.81
Autism	94.01	5.00	1.12	0.06	23.16	5.78
DS	98.81	15.65	1.09	0.11	21.31	4.49
Cerebral Palsy	92.09	3.21	1.07	0.09	22.80	5.02
CRF	98.76	11.12	1.03	0.10	26.47	5.30
Cirr/Hep Fail	94.77	2.86	1.04	0.10	24.91	5.06
Muc Angio	92.40	4.34	1.12	0.08	24.37	4.38
EMF	95.37	5.76	1.08	0.08	25.17	3.80
CCP	93.42	5.34	1.01	0.09	23.87	4.00
Exposure to EMF	102.62	26.54	1.00	0.07	22.58	5.07
F value	61.645		159.963		635.306	
P value	< 0.001		< 0.001		< 0.001	

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Abbreviations

NO/BHCD: Normal/Bi-hemispheric chemical dominance
RHCD: Right hemispheric chemical dominance
LHCD: Left hemispheric chemical dominance
HD: Huntington's disease
AD: Alzheimer's disease
MS: Multiple sclerosis
SLE: Systemic lupus erythematosis
NHL: Non-Hodgkin's lymphoma
Glio: Glioma
DM: Diabetes mellitus
CAD: Coronary artery disease
CVA: Cerebrovascular accident
AIDS: Acquired immunodeficiency syndrome
CJD: Creutzfeldt Jakob's disease
DS: Down syndrome
CRF: Chronic renal failure
Cirr/Hep Fail- Cirrhosis/Hepatic failure
EMF: Endomyocardial fibrosis
CCP: Chronic calcific pancreatitis

Discussion

There was increase in cytochrome F420 indicating archaeal growth. The archaea can synthesize and use cholesterol as a carbon and energy source.[2,10] The archaeal origin of the enzyme activities was indicated by antibiotic induced suppression. The study indicates the presence of actinide based archaea with an alternate actinide based enzymes or metalloenzymes in the system as indicated by rutile induced increase in enzyme activities.[11] The archaeal beta hydroxyl steroid dehydrogenase activity indicating digoxin synthesis.[12] The archaeal cholesterol oxidase activity was increased resulting in generation of pyruvate and hydrogen peroxide.[10] The pyruvate gets converted to glutamate and ammonia by the GABA shunt pathway. The pyruvate is converted to glutamate by serum glutamate pyruvate transaminase. The glutamate gets acted upon by glutamate dehydrogenase to generate alpha ketoglutarate and ammonia. Alanine is most commonly produced by the reductive amination of pyruvate via alanine transaminase. This reversible reaction involves the interconversion of alanine and pyruvate, coupled to the interconversion of alpha ketoglutarate (2-oxoglutarate) and glutamate. Alanine can contribute to glycine. Glutamate is acted upon by Glutamic acid decarboxylase to generate GABA. GABA is converted to succinic semialdehyde by GABA transaminase. Succinic semialdehyde is converted to succinic acid by succinic semialdehyde dehydrogenase. Glycine combines with succinyl CoA to generate delta aminolevlunic acid catalysed by the enzyme ALA synthase. There was upregulated archaeal porphyrin synthesis in the patient population which was archaeal in origin as indicated by actinide catalysis of the reactions. The cholesterol oxidase pathway generated pyruvate which entered the GABA shunt pathway. This resulted in synthesis of succinate and glycine which are substrates for ALA synthase. The archaea can undergo magnetite and calcium carbonate mineralization and can exist as calcified nanoforms.[13]

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Low level electromagnetic fields and its porphyrin messengers can regulate the brain mediating conscious and quantal perception. Porphyrin microarrays serve the purpose of quantal and conscious perception. The archaea and viroids via porphyrin synthesis can regulate the nervous system including the NMDA/GABA thalamo-cortico-thalamic pathway mediating conscious perception. Porphyrin photo-oxidation can generate free radicals which can modulate NMDA transmission. Free radicals can increase NMDA transmission. Free radicals can induce GAD and increase GABA synthesis. ALA blocks GABA transmission and upregulates NMDA. Protoporphyrins bind to GABA receptor and promote GABA transmission. Thus porphyrins can modulate the thalamo-cortico-thalamic pathway of

conscious perception. The dipolar porphyrins in the setting of digoxin induced sodium potassium ATPase inhibition can produce a pumped phonon system mediated Frohlich model superconducting state inducing quantal perception with nanoarchaeal sensed gravity producing the orchestrated reduction of the quantal possibilities to the macroscopic world. ALA can produce sodium potassium ATPase inhibition resulting in a pumped phonon system mediated quantal state involving dipolar porphyrins. Porphyrin molecules have a wave particle existence and can bridge the dividing line between quantal state and particulate state. Thus the porphyrins can mediate conscious and quantal perception. Porphyrins binding to proteins, nucleic acids and cell membranes can produce biophoton emission. Porphyrins by autooxidation can generate biophotons and are involved in quantal perception. Biophotons can mediate quantal perception. Cellular porphyrins photooxidation are involved in sensing of earth magnetic fields and low level biomagnetic fields. Thus porphyrin microarrays can function as a quantal computer mediating extrasensory perception. Porphyrin microarrays in human systems and brain owing to the wave particle nature of porphyrins can bridge the quantal world and particulate world. The porphyrins can modulate hemispheric dominance. There is increased porphyrin synthesis and RHCD and decreased porphyrin synthesis in LHCD. The increase in archaeal porphyrins can contribute to the pathogenesis of schizophrenia and autism. Porphyria can lead to psychiatric disorders and seizures. Altered porphyrin metabolism has been described in autism. Porphyrins by modulating conscious and quantal perception is involved in the pathogenesis of schizophrenia and autism.[3,4,16] Thus porphyrins microarrays can function as a quantal brain modulating extrasensory quantal perception. Porphyrin microarrays can function as a quantal brain in communication with digital world and geomagnetic fields.

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The dipolar porphyrins in the setting of digoxin induced sodium potassium ATPase inhibition can produce a pumped phonon system mediated Frohlich model superconducting state inducing quantal perception with nanoarchaeal sensed gravity producing the orchestrated reduction of the quantal possibilities to the macroscopic world. ALA can produce sodium potassium ATPase inhibition resulting in a pumped phonon system mediated quantal state involving dipolar porphyrins. Porphyrins by autooxidation can generate biophotons and are involved in quantal perception. Biophotons can mediate quantal perception. Porphyrin autooxidation is modulated by low level of electromagnetic fields and geomagnetic fields. Cellular porphyrins photooxidation are involved in sensing of earth magnetic fields and low level biomagnetic fields. Porphyrins can thus contribute to quantal

perception. Low level electromagnetic fields and light can induce porphyrin synthesis. Low level EMF can produce ferrochelatase inhibition as well as heme oxygenase induction contributing to heme depletion, ALA synthase induction and increased porphyrin synthesis. Light also induces ALA synthase and porphyrin synthesis. The increased porphyrin synthesized can contribute to increased quantal perception and can modulate conscious perception. The human porphyrin microarrays induced biophotons and quantal fields can modulate the source from which low level EMF and photic fields were generated. Thus the porphyrin generated by extraneous low level EMF and photic fields can interact with the source of low level EMF and photic fields modulating it. Thus porphyrins can serve as a bridge between the human brain and the source of low level EMF and photic fields. This serves as a mode of communication between the human brain and digital EMF storage devices like internet. The porphyrins can also serve as the source of communication with the environment. Environmental EMF and chemicals produce heme oxygenase induction and heme depletion increasing porphyrin synthesis, quantal perception and two-way communication. Thus induction of porphyrin synthesis can serve as a mechanism of communication between human brain and the environment by extrasensory perception. Porphyrin microarrays can function as quantal computers storing information and can serve the purpose of extrasensory perception. Porphyrins can serve as a two-way communicating bridge between digital information storage systems generating low level electromagnetic fields and human systems. The low level of EMF produced by digital system enhances porphyrin synthesis and serves the purpose of two-way extrasensory perception and communication. The human porphyrin quantal computers can in turn by biophoton emission modulate digital information storage system.

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Low level of electromagnetic fields and its porphyrin messengers can induce the Warburg phenotype. An actinide dependent shadow biosphere of archaea and viroids in the above mentioned disease states is described. The archaea can synthesize porphyrins and induce porphyrin synthesis. Porphyrins have been related to schizophrenia, metabolic syndrome x, malignancy, systemic lupus erythematosis, multiple sclerosis and Alzheimer's diseases. Porphyrins can mediate the effect of low level electromagnetic fields inducing the Warburg phenotype leading to the above mentioned disease states. The Warburg phenotype results in inhibition of pyruvate dehydrogenase and the TCA cycle. The pyruvate enters the GABA shunt pathway where it is converted to succinyl CoA. The glycolytic pathway is upregulated and the glycolytic metabolite phosphoglycerate is converted to serine and

glycine. Glycine and succinyl CoA are the substrates for ALA synthesis. The archaea induces the enzyme heme oxygenase. Heme oxygenase converts heme to bilirubin and biliverdin. This depletes heme from the system and results in upregulation of ALA synthase activity resulting in porphyria. Heme inhibits HIF alpha. The heme depletion results in upregulation of HIF alpha activity and further strengthening of the Warburg phenotype. The porphyrin self-oxidation results in redox stress which activates HIF alpha and generates the Warburg phenotype. The Warburg phenotype results in channelling acetyl CoA for cholesterol synthesis as the TCA cycle and mitochondrial oxidative phosphorylation are blocked. The archaea uses cholesterol as an energy substrate. Porphyrin and ALA inhibits sodium potassium ATPase. This increases cholesterol synthesis by acting upon intracellular SREBP. The cholesterol is metabolized to pyruvate and then the GABA shunt pathway for ultimate use in porphyrin synthesis. The porphyrins can self-organize and self-replicate into macromolecular arrays. The porphyrin arrays behave like an autonomous organism and can have intramolecular electron transport generating ATP. The porphyrin macroarrays can store information and can have quantal perception. The porphyrin macroarrays serves the purpose of archaeal energetics and sensory perception. The Warburg phenotype is associated with malignancy, autoimmune disease and metabolic syndrome x. Low level electromagnetic fields can induce the Warburg phenotype contributing to human disease.

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The role of porphyrins and low level electromagnetic fields in regulation of cell functions and neuro-immuno-endocrine integration is discussed. Low levels of EMF fields can induce digoxin synthesis. Protoporphyrin binds to the peripheral benzodiazepine receptor regulating steroid and digoxin synthesis. Increased porphyrin metabolites can contribute to hyperdigoxinemia. Digoxin can modulate the neuro-immuno-endocrine system. Low level of EMF fields can modulate membrane, nucleic acid and protein structure and function via induction of porphyrin synthesis. Porphyrins can combine with membranes modulating membrane function. Porphyrins can combine with proteins oxidizing their tyrosine, tryptophan, cysteine and histidine residues producing crosslinking and altering protein conformation and function. Porphyrins can complex with DNA and RNA modulating their function. Porphyrin interpolating with DNA can alter transcription and generate HERV expression. Low level of EMF fields through modulation of porphyrin metabolism can produce heme deficiency by inhibiting heme oxygenase and ferrochelatase. Heme deficiency can also result in disease states. Heme deficiency results in deficiency of heme enzymes. There is deficiency of cytochrome C oxidase and mitochondrial dysfunction. The glutathione

peroxidase is dysfunctional and the glutathione system of free radical scavenging does not function. The cytochrome P450 enzymes involved in steroid and bile acid synthesis have reduced activity leading to steroid- cortisol and sex hormones as well as bile acid deficiency states. The heme deficiency results in dysfunction of nitric oxide synthase, heme oxygenase and cystathione beta synthase resulting in lack of gasotransmitters regulating the vascular system and NMDA receptor- NO, CO and H_2S. Heme has got cytoprotective, neuroprotective, anti-inflammatory and anti-proliferative effects. Heme is also involved in the stress response. Heme deficiency leads to metabolic syndrome, immune disease, degenerations and cancer.[3-5] Low level electromagnetic fields can modulate cell functions and neuro-immuno-endocrine-genetic integration via induction of porphyrin synthesis.

Low level electromagnetic fields via modulating porphyrin metabolism can produce an autonomic neuropathy. Protoporphyrins block acetyl choline transmission producing a vagal neuropathy with sympathetic overactivity. Vagal neuropathy results in immune activation, vasospasm and vascular disease. A vagal neuropathy underlines neoplastic and autoimmune processes as well as metabolic syndrome x. Low level electromagnetic fields by modulating porphyrin metabolism can induce cell death. Porphyrin induced increased NMDA transmission and free radical injury can contribute to neuronal degeneration. Free radicals can produce mitochondrial PT pore dysfunction. This can lead to cyto C leak and activation of the caspase cascade leading to apoptosis and cell death. Altered porphyrin metabolism has been described in Alzheimer's disease. The increased porphyrin photooxidation generated free radicals mediated NMDA transmission can also contribute to epileptogenesis. The protoporphyrins binding to mitochondrial benzodiazepine receptors can regulate brain function and cell death.[3,4,16]

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Low level electromagnetic fields by modulating porphyrin metabolism can generate redox stress to regulate cell functions. The porphyrins can undergo photooxidation and autooxidation generating free radicals. The archaeal porphyrins can produce free radical injury. Free radicals produce NFKB activation, open the mitochondrial PT pore resulting in cell death, produce oncogene activation, activate NMDA receptor and GAD enzyme regulating neurotransmission and generates the Warburg phenotypes activating glycolysis and inhibiting TCA cycle/oxphos. Porphyrins have been related to schizophrenia, metabolic syndrome x, malignancy, systemic lupus erythematosis, multiple sclerosis and Alzheimer's diseases. Low level electromagnetic fields by modulating porphyrin metabolism can regulate

cell membrane sodium potassium ATPase. The porphyrins can complex and intercalate with the cell membrane producing sodium potassium ATPase inhibition adding on to digoxin mediated inhibition. Porphyrins can complex with proteins and nucleic acid producing biophoton emission. Low level electromagnetic fields by modulating porphyrin metabolism can regulate DNA, RNA and protein structure and function. Porphyrins complexing with proteins can modulate protein structure and function. Porphyrins complexing with DNA and RNA can modulate transcription and translation. Low level electromagnetic fields by modulating porphyrin metabolism can regulate mitochondrial function, peripheral benzodiazepine receptor and steroidogenesis. The porphyrin especially protoporphyrins can bind to peripheral benzodiazepine receptors in the mitochondria and modulate its function, mitochondrial cholesterol transport and steroidogenesis. Peripheral benzodiazepine receptor modulation by protoporphyrins can regulate cell death, cell proliferation, immunity and neural functions. Low level electromagnetic fields by modulating porphyrin metabolism and inducing redox stress can regulate enzyme systems. The porphyrin photooxidation generates free radicals which can modulate enzyme function. Redox stress modulated enzymes include pyruvate dehydrogenase, nitric oxide synthase, cystathione beta synthase and heme oxygenase. Free radicals can modulate mitochondrial PT pore function. Free radicals can modulate cell membrane function and inhibit sodium potassium ATPase activity. Thus the porphyrins are key regulatory molecules modulating all aspects of cell function.[3-5] Low level of electromagnetic fields by modulating porphyrin metabolism can induce viroidal and HERV expression. There was an increase in free RNA indicating self replicating RNA viroids and free DNA indicating generation of viroid complementary DNA strands by archaeal reverse transcriptase activity. The actinides and porphyrins modulate RNA folding and catalyse its ribozymal action. Digoxin can cut and paste the viroidal strands by modulating RNA splicing generating RNA viroidal diversity. The viroids are evolutionarily escaped archaeal group I introns which have retrotransposition and self splicing qualities. Porphyrin photooxidation induced redox stress can produce HDAC inhibition. Archaeal pyruvate producing histone deacetylase inhibition and porphyrins intercalating with DNA can produce endogenous retroviral (HERV) reverse transcriptase and integrase expression. This can integrate the RNA viroidal complementary DNA into the non-coding region of eukaryotic non-coding DNA using HERV integrase as has been described for borna and ebola viruses. The archaea and viroids can also induce cellular porphyrin synthesis. Bacterial and viral infections can precipitate porphyria. Thus porphyrins can regulate genomic function. The increased

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expression of HERV RNA can result in acquired immunodeficiency syndrome, autoimmune disease, neuronal degenerations, schizophrenia and malignancy.[14,15]

Low level electromagnetic fields by modulating porphyrin metabolism and generating redox stress can produce immune activation. The porphyrin photooxidation can generate free radicals which can activate NFKB. This can produce immune activation and cytokine mediated injury. The increase in archaeal porphyrins can lead to autoimmune disease like SLE and MS. A hereditary form of MS and SLE related to altered porphyrin metabolism has been described. The protoporphyrins binding to mitochondrial benzodiazepine receptors can modulate immune function. Porphyrins can combine with proteins oxidizing their tyrosine, tryptophan, cysteine and histidine residues producing crosslinking and altering protein conformation and function. Porphyrins can complex with DNA and RNA modulating their structure. Porphyrin complexed with proteins and nucleic acids are antigenic and can lead on to autoimmune disease.[3,4] Low level electromagnetic fields by modulating porphyrin metabolism and inducing redox stress can produce insulin resistance. The porphyrin photooxidation mediated free radical injury can lead to insulin resistance and atherogenesis. Thus archaeal porphyrins can contribute to metabolic syndrome x. Glucose has got a negative effect upon ALA synthase activity. Therefore hyperglycemia may be reactive protective mechanism to increased archaeal porphyrin synthesis. The protoporphyrins binding to mitochondrial benzodiazepine receptors can modulate mitochondrial steroidogenesis and metabolism. Altered porphyrin metabolism has been described in the metabolic syndrome x. Porphyrias can lead on to vascular thrombosis.[3,4] Low level electromagnetic fields by modulating porphyrin metabolism and inducing redox stress/heme deficiency can activate HIF alpha. The porphyrin photooxidation can generate free radicals inducing HIF alpha and producing oncogene activation. Heme deficiency can lead to activation of HIF alpha and oncogenesis. This can lead to oncogenesis. Hepatic porphyrias induced hepatocellular carcinoma. The protoporphyrins binding to mitochondrial benzodiazepine receptors can regulate cell proliferation.[3,4] Low level electromagnetic fields by modulating porphyrin metabolism can regulate prion protein conformation. The porphyrin can combine with prion proteins modulating their conformation. This leads to abnormal prion protein conformation and degradation. Archaeal porphyrins can contribute to prion disease. Low level electromagnetic fields by modulating porphyrin metabolism can produce redox stress and regulate HERV expression. The porphyrins can also intercalate with DNA producing HERV expression. The HERV particles generated can contribute to the retroviral state. The

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porphyrins in the blood can combine with bacteria and viruses and the photooxidation generated free radicals can kill them. Low level electromagnetic fields by modulating porphyrin metabolism can lead to increase predilection for viral and bacterial infections. The archaeal porphyrins can modulate bacterial and viral infections. The archaeal porphyrins are regulatory molecules keeping other prokaryotes and viruses on check.[3,4]

The metal actinides provide radiolytic energy, catalysis for oligomer formation and provide a coordinating ion for metalloenzymes all important in abiogenesis[6]. The metal actinide surfaces would by surface metabolism generate porphyrins from simple compounds like succinic acid and glycine. Porphyrins can exist as wave forms and particulate forms and can bridge the dividing line between the quantal world and particulate world. Porphyrin molecules can self-organize into organisms with energy transduction, ATP synthesis and information storage with replicating capacity. A self-replicating porphyrin microorganism may have played a role in the origin of life. Porphyrins can form templates on which macromolecules like polysaccharides, protein and nucleic acids can form. The macromolecules generated on actinidic porphyrins templates would have contributed to the actinidic nanoarchaea and the original organisms on earth. The data supports the persistence of an actinidic archaeal shadow biosphere which throws light on the actinide based origin of life and porphyrins as the premier prebiotic molecule.[17,18]

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Porphyrins play an important role in the genesis of the biological universe. The porphyrin macroarrays can form in the interstellar space on its own as porphyrins can exist both as particles and waves. Porphyrins form the bridging connection between the quantal world and the particulate world. The self generated porphyrins from the quantal foam can self organise to form macroarrays, can store information and self replicate. This can be called as an abiotic porphyrin organism. The porphyrin template would have generated nucleic acids, proteins, polysaccharides and isoprenoids. This would have generated actinidic nanoarchaea in the interstellar space. The porphyrins have magnetic properties and the interstellar porphyrin organism can contribute to the interstellar grains and interstellar magnetic fields. The cosmic dust grains of porphyrin macroarrays/nanoarchaeal organism occupy the intergalactic space and are thought to be formed of magnetotactic bacteria identified according to their spectral signatures. According to the Hoyle's hypothesis, the cosmic dust magnetotactic porphyrin macroarrays/nanoarchaeal organism plays a role in the formation of the intergalactic magnetic field. A magnetic field equal in strength to about one millionth part

of the magnetic field of earth exists throughout much of our galaxy. The magnetic files can be used to trace the spiral arms of the galaxy following a pattern of field lines that connect young stars and dust in which new stars are formed at a rapid rate. Studies have shown that a fraction of the dust particles have elongated shape similar to bacilli and they are systematically lined up in our galaxy. Moreover the direction of alignment is such that the long axes of the dust tend to be at right angles to the direction of the galactic magnetic field at every point. Magnetotactic porphyrin macroarrays/nanoarchaeal organisms have the property to affect the degree of alignment that is observed. The fact that the magnetotactic porphyrin macroarrays/nanoarchaeal organisms appear to be connected to the magnetic field lines that thread through the spiral arms of the galaxy connecting one region of star formation to another support a role for them in star formation and in the mass distribution and rotation of stars. The nutrient supply for a population of interstellar porphyrin macroarrays/nanoarchaeal organisms comes from mass flows out of supernovas populating the galaxy. Giants arising in the evolution of such stars experience a phenomenon in which material containing nitrogen, carbon monoxide, hydrogen, helium, water and trace elements essential for life flows continuously outward into space. The interstellar organisms need liquid water. Water exists only as vapour or solid in the interstellar space and only through star formation leading to associated planets and cometary bodies can there be access to liquid water. To control conditions leading to star formation is of paramount importance in cosmic biology. The rate of star formation is controlled by two factors. Too high a rate of star formation produces a destructive effect of UV radiation and destroys cosmic biology. Star formation as stated before produces water crucial for organism growth. Cosmic biology of magnetotactic organisms and star formation are thus closely interlinked. Systems like solar systems do not arise in random condensation of blobs of interstellar gas. Only by a rigorous control of rotation of various parts of the system would galaxies and solar system evolved. The key to maintaining control over rotation seems to lie in the intergalactic magnetic field as indeed the whole phenomena of star formation. The intergalactic magnetic fields owes its origin to the lining up of magnetotactic porphyrin macroarrays/nanoarchaeal organisms and the cosmic biology of interstellar organisms can prosper only by maintaining a firm grip on the interstellar magnetic field and hence on the rate of star formation and type of star system produced. This points to a cosmic intelligence or brain capable of computation, analysis and exploration of the universe at large- of magnetotactic porphyrin macroarrays/nanoarchaeal organism networks. The origin of life on earth according to the Hoyle's hypothesis would be by seeding of porphyrin macroarrays/nanoarchaeal organisms from the outer intergalactic

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space. The porphyrin organism can also be generated on actinidic surfaces in earth. Comets carrying porphyrin organisms would have interacted with the earth. A thin skin of graphitized material around a single porphyrin macroarrays/nanoarchaeal organism or clumps of organism can shield the interior from destruction by UV light. The sudden surge and diversification of species of plants and animals and their equally sudden extinction has seen from fossil records point to sporadic evolution produced by induction of fresh cometary genes with the arrival of each major new crop of comets. The porphyrin macroarrays organism can have a wave-particle existence and bridge the world of bosons and fermions. The porphyrin macroarrays/nanoarchaeal organism can form biofilms and the porphyrin organism can form a molecular quantum computing cloud in the biofilm which forms an interstellar intelligence regulating the formation of star systems and galaxies. The porphyrin macroarrays/nanoarchaeal organism quantal computing cloud can bridge the wave-particle world functioning as the anthropic observer sensing gravity which orchestrates the reduction of the quantal world of possibilities in to the macroscopic world. The actinide based porphyrin macroarrays/nanoarchaeal organism regulates the human system and biological universe.[19-21]

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Porphyrins also have evolutionary significance since porphyria is related to Scythian races and contributes to the behavioural and intellectual characteristics of this group of population. Porphyrins can intercalate into DNA and produce HERV expression. HERV RNA can get converted to DNA by reverse transcriptase which can get integrated into DNA by integrase. This tends to increase the length of the non-coding region of the DNA. The increase in non-coding region of the DNA is involved in primate and human evolution. Thus, increased rates of porphyrin synthesis would correlate with increase in non-coding DNA length. The alteration in the length of the non-coding region of the DNA contributes to the dynamic nature of the genome. Thus genetic and acquired porphyrias can lead to alteration in the non-coding region of the genome. The alteration of the length of the non-coding region of the DNA contributes to the racial and individual differences in populations. An increased length of non-coding region as well as increased porphyrin synthesis leads to increased cognitive and creative neuronal function. Porphyrins are involved in quantal perception and regulation of the thalamo-cortico-thalamic pathway of conscious perception. Thus genetic and acquired porphyrias contribute to higher cognitive and creative capacity of certain races. Porphyrias are common among Eurasian Scythian races who have assumed leadership roles in communities and groups. Porphyrins have contributed to human and primate evolution.[3,4]

The increased porphyrin synthesis in the Scythian races contributes to higher level of extrasensory quantal perception in this racial group. This contributes to higher level of cognitive and spiritual function of the brain in this racial group.

The porphyrins can contribute to the role of low level electromagnetic fields in the pathogenesis of metabolic syndrome x, malignancy, psychiatric disorders, autoimmune disease, AIDS, prion disease, neuronal degeneration and epileptogenesis. An actinide dependent shadow biosphere of archaea and viroids in the above mentioned disease states-metabolic syndrome x, malignancy, psychiatric disorders, autoimmune disease, AIDS, prion disease, neuronal degeneration and epileptogenesis is described. Archaeal porphyrin synthesis and induction of endogenous porphyrin synthesis is crucial in the pathogenesis of these disorders. Porphyrins may serve as regulatory molecules modulating immune, neural, endocrine, metabolic and genetic systems. The porphyrins photooxidation generated free radicals can produce immune activation, produce cell death, activate cell proliferation, produce insulin resistance and modulate conscious/quantal perception. Porphyrins can regulate hemispheric dominance. The archaeal porphyrins functions as key regulatory molecules with mitochondrial benzodiazepine receptors playing an important role. Thus the porphyrins contributes to the inducing role of low level electromagnetic fields in the pathogenesis of metabolic syndrome x, malignancy, psychiatric disorders, autoimmune disease, AIDS, prion disease, neuronal degeneration and epileptogenesis. Low level electromagnetic fields and its porphyrin messengers can regulate immune, neural, endocrine, metabolic and genetic systems.[3,4] A hypothesis regarding the role of porphyrins and quantal perception as well as the role of porphyrins in environmental communication/ modulation of digital information storage/processing system is presented. Thus porphyrin microarrays can function as a quantal computer mediating extrasensory perception. Porphyrin microarrays in human systems and brain owing to the wave particle nature of porphyrins can bridge the quantal world and particulate world. The relationship between low level of electromagnetic fields and human disease is highlighted.

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The porphyrions are self replicating supramolecular organisms which forms the precursor template on which the viroids, prions and nanoarchaea originate. Stress induced template directed abiogenesis of porphyrions, prions, viroids and archaea is a continuous process and can contribute to changes in brain structure and behavior as well as disease process.

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CHAPTER 22

ENDOSYMBIOTIC ACTINIDIC ARCHAEA, GALACTIC EVOLUTION, GLOBAL WARMING AND CATASTROPHIC EVOLUTIONARY CYCLES

Introduction

A hypothesis regarding cholesterol based abiogenesis and its role in the evolution of universe is elucidated. Endomyocardial fibrosis (EMF) along with the root wilt disease of coconut is endemic to Kerala with its radioactive actinide beach sands. Actinides like rutile producing intracellular magnesium deficiency due to rutile-magnesium exchange sites in the cell membrane has been implicated in the etiology of EMF[1,2]. Organisms like phytoplasmas and viroids have also been demonstrated to play a role in the etiology of these diseases[3,4]. Actinidic archaea has been related to the pathogenesis of schizophrenia, malignancy, metabolic syndrome x, autoimmune disease and neuronal degeneration. An actinide dependent shadow biosphere of archaea and viroids in the above mentioned disease states is described. Actinide based primitive organism like archaea have a mevalonate pathway and cholesterol catabolism[5-7]. Davies has put forward the concept of a shadow biosphere of organisms with alternate biochemistry present in earth itself[8]. This points to cholesterol as the primal prebiotic molecule and evolution of actinidic archaea and viroids from a primitive isoprenoid organism. The covid 19 related metabolic porphyria can be lead to abiogenetic formation of archaea on porphyrin templates.

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Metal actinides in beach sands have been postulated to play a role in abiogenesis[6]. Actinide mineral like rutile, monazite and illmenite by surface metabolism would have contributed to abiogenesis[9]. A hypothesis of cholesterol as the primal prebiotic molecule synthesized on actinide surfaces with all other biomolecules arising from it and a self replicating cholesterol lipid organism as the initial life form is presented. The role of actinidic archaea in the genesis of the interstellar polycyclic aromatic hydrocarbons as well as the interstellar magnetic fields important in the evolution of the universe is hypothesized. The role of actinidic archaea in global warming and evolutionary cycles is discussed. The quantal state merges with the macroscopic world in panpsychism. The quantal state can have the simultaneous presence of the past, present and future. This forms the basis of astrology or jyothisha formulated by Bhrigu.

Materials and Methods

Informed consent of the subjects and the approval of the Ethics Committee were obtained for the study. The following groups were included in the study:- endomyocardial fibrosis, Alzheimer's disease, multiple sclerosis, non-Hodgkin's lymphoma, metabolic syndrome x with cerebrovascular thrombosis and coronary artery disease, schizophrenia, autism, seizure disorder, Creutzfeldt Jakob's disease and acquired immunodeficiency syndrome. There were 10 patients in each group and each patient had an age and sex matched healthy control selected randomly from the general population. The blood samples were drawn in the fasting state before treatment was initiated. Plasma from fasting heparinised blood was used and the experimental protocol was as follows:- (I) Plasma+phosphate buffered saline, (II) same as I+cholesterol substrate, (III) same as II+rutile 0.1 mg/ml, and (IV) same as II+ciprofloxacine and doxycycline each in a concentration of 1 mg/ml. Cholesterol substrate was prepared as described by Richmond[10]. Aliquots were withdrawn at zero time immediately after mixing and after incubation at 37 ºC for 1 hour. The following estimations were carried out:- Cytochrome F420, free RNA, free DNA, muramic acid, polycyclic aromatic hydrocarbon, hydrogen peroxide, serotonin, pyruvate, ammonia, glutamate, cytochrome C, hexokinase, ATP synthase, HMG CoA reductase, digoxin and bile acids[11-14]. Cytochrome F420 was estimated flourimetrically (excitation wavelength 420 nm and emission wavelength 520 nm). Polycyclic aromatic hydrocarbon was estimated by measuring hydrogen peroxide liberated by using glucose reagent. The statistical analysis was done by ANOVA.

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Results

The parameters checked as indicated above were:- cytochrome F420, free RNA, free DNA, muramic acid, polycyclic aromatic hydrocarbon, hydrogen peroxide, serotonin, pyruvate, ammonia, glutamate, cytochrome C, hexokinase, ATP synthase, HMG CoA reductase, digoxin and bile acids. Plasma of control subjects showed increased levels of the above mentioned parameters with after incubation for 1 hour and addition of cholesterol substrate resulted in still further significant increase in these parameters. The plasma of patients showed similar results but the extent of increase was more. The addition of antibiotics to the control plasma caused a decrease in all the parameters while addition of rutile increased their levels. The addition of antibiotics to the patient's plasma caused a decrease in all the parameters while addition of rutile increased their levels but the extent of change was more in patient's sera as compared to controls. The results are expressed in tables

1-7 as percentage change in the parameters after 1 hour incubation as compared to the values at zero time.

Table 1. Effect of rutile and antibiotics on cytochrome F420 and muramic acid

Group	CYT F420 % (Increase with Rutile)		CYT F420 % (Decrease with Doxy+Cipro)		Muramic acid % change (Increase with Rutile)		Muramic acid % change (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.48	0.15	18.24	0.66	4.45	0.14	18.25	0.72
Schizo	23.24	2.01	58.72	7.08	23.01	1.69	59.49	4.30
Seizure	23.46	1.87	59.27	8.86	22.67	2.29	57.69	5.29
AD	23.12	2.00	56.90	6.94	23.26	1.53	60.91	7.59
MS	22.12	1.81	61.33	9.82	22.83	1.78	59.84	7.62
NHL	22.79	2.13	55.90	7.29	22.84	1.42	66.07	3.78
DM	22.59	1.86	57.05	8.45	23.40	1.55	65.77	5.27
AIDS	22.29	1.66	59.02	7.50	23.23	1.97	65.89	5.05
CJD	22.06	1.61	57.81	6.04	23.46	1.91	61.56	4.61
Autism	21.68	1.90	57.93	9.64	22.61	1.42	64.48	6.90
EMF	22.70	1.87	60.46	8.06	23.73	1.38	65.20	6.20
F value	306.749		130.054		391.318		257.996	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 2. Effect of rutile and antibiotics on free RNA and DNA

Group	DNA % change (Increase with Rutile)		DNA % change (Decrease with Doxy+Cipro)		RNA % change (Increase with Rutile)		RNA % change (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.37	0.15	18.39	0.38	4.37	0.13	18.38	0.48
Schizo	23.28	1.70	61.41	3.36	23.59	1.83	65.69	3.94
Seizure	23.40	1.51	63.68	4.66	23.08	1.87	65.09	3.48
AD	23.52	1.65	64.15	4.60	23.29	1.92	65.39	3.95
MS	22.62	1.38	63.82	5.53	23.29	1.98	67.46	3.96
NHL	22.42	1.99	61.14	3.47	23.78	1.20	66.90	4.10
DM	23.01	1.67	65.35	3.56	23.33	1.86	66.46	3.65
AIDS	22.56	2.46	62.70	4.53	23.32	1.74	65.67	4.16
CJD	23.30	1.42	65.07	4.95	23.11	1.52	66.68	3.97
Autism	22.12	2.44	63.69	5.14	23.33	1.35	66.83	3.27
EMF	22.29	2.05	58.70	7.34	22.29	2.05	67.03	5.97
F value	337.577		356.621		427.828		654.453	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 3. Effect of rutile and antibiotics on HMG CoA reductase and ATP synthase

Group	HMG CoA R % change (Increase with Rutile)		HMG CoA R % change (Decrease with Doxy+Cipro)		ATP synthase % (Increase with Rutile)		ATP synthase % (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.30	0.20	18.35	0.35	4.40	0.11	18.78	0.11
Schizo	22.91	1.92	61.63	6.79	23.67	1.42	67.39	3.13
Seizure	23.09	1.69	61.62	8.69	23.09	1.90	66.15	4.09
AD	23.43	1.68	61.68	8.32	23.58	2.08	66.21	3.69
MS	23.14	1.85	59.76	4.82	23.52	1.76	67.05	3.00
NHL	22.28	1.76	61.88	6.21	24.01	1.17	66.66	3.84
DM	23.06	1.65	62.25	6.24	23.72	1.73	66.25	3.69
AIDS	22.86	2.58	66.53	5.59	23.15	1.62	66.48	4.17
CJD	22.38	2.38	60.65	5.27	23.00	1.64	66.67	4.21
Autism	22.72	1.89	64.51	5.73	22.60	1.64	66.86	4.21
EMF	22.92	1.48	61.91	7.56	23.37	1.31	63.97	3.62
F value	319.332		199.553		449.503		673.081	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 4. Effect of rutile and antibiotics on digoxin and bile acids

Group	Digoxin (ng/ml) (Increase with Rutile)		Digoxin (ng/ml) (Decrease with Doxy+Cipro)		Bile Acids % change (Increase with Rutile)		Bile Acids % change (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	0.11	0.00	0.054	0.003	4.29	0.18	18.15	0.58
Schizo	0.55	0.06	0.219	0.043	23.20	1.87	57.04	4.27
Seizure	0.51	0.05	0.199	0.027	22.61	2.22	66.62	4.99
AD	0.55	0.03	0.192	0.040	22.12	2.19	62.86	6.28
MS	0.52	0.03	0.214	0.032	21.95	2.11	65.46	5.79
NHL	0.54	0.04	0.210	0.042	22.98	2.19	64.96	5.64
DM	0.47	0.04	0.202	0.025	22.87	2.58	64.51	5.93
AIDS	0.56	0.05	0.220	0.052	22.29	1.47	64.35	5.58
CJD	0.53	0.06	0.212	0.045	23.30	1.88	62.49	7.26
Autism	0.53	0.08	0.205	0.041	22.21	2.04	63.84	6.16
EMF	0.51	0.05	0.213	0.033	23.41	1.41	58.70	7.34
F value	135.116		71.706		290.441		203.651	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 5. Effect of rutile and antibiotics on pyruvate and hexokinase

Group	Pyruvate % change (Increase with Rutile)		Pyruvate % change (Decrease with Doxy+Cipro)		Hexokinase % change (Increase with Rutile)		Hexokinase % change (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.34	0.21	18.43	0.82	4.21	0.16	18.56	0.76
Schizo	20.99	1.46	61.23	9.73	23.01	2.61	65.87	5.27
Seizure	20.94	1.54	62.76	8.52	23.33	1.79	62.50	5.56
AD	22.63	0.88	56.40	8.59	22.96	2.12	65.11	5.91
MS	21.59	1.23	60.28	9.22	22.81	1.91	63.47	5.81
NHL	21.19	1.61	58.57	7.47	22.53	2.41	64.29	5.44
DM	20.67	1.38	58.75	8.12	23.23	1.88	65.11	5.14
AIDS	21.21	2.36	58.73	8.10	21.11	2.25	64.20	5.38
CJD	21.07	1.79	63.90	7.13	22.47	2.17	65.97	4.62
Autism	21.91	1.71	58.45	6.66	22.88	1.87	65.45	5.08
EMF	22.29	2.05	62.37	5.05	21.66	1.94	67.03	5.97
F value	321.255		115.242		292.065		317.966	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 6. Effect of rutile and antibiotics on hydrogen peroxide and delta amino levulinic acid

Group	H_2O_2 % (Increase with Rutile)		H_2O_2 % (Decrease with Doxy+Cipro)		ALA % (Increase with Rutile)		ALA % (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.43	0.19	18.13	0.63	4.40	0.10	18.48	0.39
Schizo	22.50	1.66	60.21	7.42	22.52	1.90	66.39	4.20
Seizure	23.81	1.19	61.08	7.38	22.83	1.90	67.23	3.45
AD	22.65	2.48	60.19	6.98	23.67	1.68	66.50	3.58
MS	21.14	1.20	60.53	4.70	22.38	1.79	67.10	3.82
NHL	23.35	1.76	59.17	3.33	23.34	1.75	66.80	3.43
DM	23.27	1.53	58.91	6.09	22.87	1.84	66.31	3.68
AIDS	23.32	1.71	63.15	7.62	23.45	1.79	66.32	3.63
CJD	22.86	1.91	63.66	6.88	23.17	1.88	68.53	2.65
Autism	23.52	1.49	63.24	7.36	23.20	1.57	66.65	4.26
EMF	23.29	1.67	60.52	5.38	22.29	2.05	61.91	7.56
F value	380.721		171.228		372.716		556.411	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 7. Effect of rutile and antibiotics on PAH and serotonin

Group	PAH % (Increase with Rutile)		PAH % (Decrease with Doxy+Cipro)		5 HT % change (Increase with Rutile)		5 HT % change (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.41	0.15	18.63	0.12	4.34	0.15	18.24	0.37
Schizo	21.88	1.19	66.28	3.60	23.02	1.65	67.61	2.77
Seizure	22.29	1.33	65.38	3.62	22.13	2.14	66.26	3.93
AD	23.66	1.67	65.97	3.36	23.09	1.81	65.86	4.27
MS	22.92	2.14	67.54	3.65	21.93	2.29	63.70	5.63
NHL	23.81	1.90	66.95	3.67	23.12	1.71	65.12	5.58
DM	24.10	1.61	65.78	4.43	22.73	2.46	65.87	4.35
AIDS	23.43	1.57	66.30	3.57	22.98	1.50	65.13	4.87
CJD	23.70	1.75	68.06	3.52	23.81	1.49	64.89	6.01
Autism	22.76	2.20	67.63	3.52	22.79	2.20	64.26	6.02
EMF	22.28	1.52	64.05	2.79	22.82	1.56	64.61	4.95
F value	403.394		680.284		348.867		364.999	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Discussion

There was increase in cytochrome F420 indicating archaeal growth. The archaea can synthesize and use cholesterol as a carbon and energy source[15,16]. The archaeal origin of the enzyme activities was indicated by antibiotic induced suppression. The study indicates the presence of actinide based archaea with an alternate actinide based enzymes or metalloenzymes in the system as indicated by rutile induced increase in enzyme activities[17]. There was also an increase in archaeal HMG CoA reductase activity indicating increased cholesterol synthesis by the archaeal mevalonate pathway. The archaeal beta hydroxyl steroid dehydrogenase activity indicating digoxin synthesis and archaeal cholesterol hydroxylase activity indicating bile acid synthesis were increased[7]. The archaeal cholesterol oxidase activity was increased resulting in generation of pyruvate and hydrogen peroxide[16]. The pyruvate gets converted to glutamate and ammonia by the GABA shunt pathway. The archaeal aromatization of cholesterol generating PAH, serotonin and dopamine was also detected[18]. The archaeal glycolytic hexokinase activity and archaeal extracellular ATP synthase activity were increased. The archaea can undergo magnetite and calcium carbonate mineralization and can exist as calcified nanoforms[19].

There was an increase in free RNA indicating self replicating RNA viroids and free DNA indicating generation of viroid complementary DNA strands by archaeal reverse transcriptase activity. The actinides modulate RNA folding and catalyse its ribozymal action. Digoxin can cut and paste the viroidal strands by modulating RNA splicing generating RNA

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viroidal diversity. The viroids are evolutionarily escaped archaeal group I introns which have retrotransposition and self-splicing qualities[20]. Archaeal pyruvate can produce histone deacetylase inhibition resulting in endogenous retroviral (HERV) reverse transcriptase and integrase expression. This can integrate the RNA viroidal complementary DNA into the non-coding region of eukaryotic non-coding DNA using HERV integrase as has been described for borna and ebola viruses[21]. The non-coding DNA is lengthened by integrating RNA viroidal complementary DNA with the integration going on as a continuing event. The archaea genome can also get integrated into human genome using integrase as has been described for trypanosomes[22]. The integrated viroids and archaea can undergo vertical transmission and can exist as genomic parasites[21,22]. This increases the length and alters the grammar of the non-coding region producing memes or memory of acquired characters[23]. The viroidal complementary DNA can function as jumping genes producing a dynamic genome.

The presence of muramic acid, HMG CoA reductase and cholesterol oxidase activity inhibited by antibiotics indicates the presence of bacteria with mevalonate pathway. The bacterial with mevalonate pathway include streptococcus, staphylococcus, actinomycetes, listeria, coxiella and borrelia[24]. The bacteria and archaea with mevalonate pathway and cholesterol catabolism had a evolutionarily advantage and constitutes the isoprenoidal clade organism with the archaea evolving into mevalonate pathway gram positive and gram negative organism through horizontal gene transfer of viroidal and virus genes[25]. The isoprenoidal clade prokaryotes develop into other groups of prokaryotes via viroidal/virus as well as eukaryotic horizontal gene transfer producing bacterial speciation[26]. The RNA viroids and its complementary DNA developed into cholesterol enveloped RNA and DNA viruses like herpes, retrovirus, influenza virus, borna virus, cytomegalo virus and Ebstein Barr virus by recombining with eukaryotic and human genes resulting in viral speciation. Bacterial and viral species are ill defined and fuzzy with all of them forming one common genetic pool with frequent horizontal gene transfer and recombination. Thus the multi and unicellular eukaryote with its genes serves the purpose of prokaryotic and viral speciation .The multicellular eukaryote developed so that their endosymbiotic archaeal colonies could survive and forage better. The multicellular eukaryotes are like bacterial biofilms. The archaea and bacteria with a mevalonate pathway uses the extracellular RNA viroids and DNA viroids for quorum sensing and in the generation of symbiotic biofilm like structures which develop into multicellular eukaryotes[27,28]. The endosymbiotic archaea and bacteria with mevalonate

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pathway still uses the RNA viroids and DNA viroids for the regulation of multicellular eukaryote.

Pollution is induced by the primitive nanoarchaea and mevalonate pathway bacteria synthesized PAH and methane leading on to redox stress. Redox stress leads to sodium potassium ATPase inhibition, inward movement of plasma membrane cholesterol, defective SREBP sensing, increased cholesterol synthesis and nanoarchaeal/mevalonate pathway bacterial growth[29]. Redox stress leads on to viroidal and archaeal multiplication. Redox stress can also lead to HERV reverse transcriptase and integrase expression. The non-coding DNA is formed of integrating RNA viroidal complementary DNA and archaea with the integration going on as a continuing event. The archaeal pox like dsDNA virus forms evolutionarily the nucleus. The integrated viroidal, archaeal and mevalonate pathway bacterial sequences can undergo vertical transmission and can exist as genomic parasites. The genomic integrated archaea, mevalonate pathway bacteria and viroids form a genomic reserve of bacteria and viruses which can recombine with human and eukaryotic genes producing bacterial and viral speciation. The change in the length and grammar of the non-coding region produces eukaryotic speciation and individuality[30]. The integration of nanoarchaea, mevalonate pathway prokaryotes and viroids in to the eukaryotic and human genome produces a chimera which can multiply producing biofilm like multicellular structures having a mixed archaeal, viroidal, prokaryotic and eukaryotic characters which is a regression from the multicellular eukaryotic tissue. This results in a new neuronal, metabolic, immune and tissue phenotype leading to human disease.[31-34]

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The metal actinides provide radiolytic energy, catalysis for oligomer formation and provide a coordinating ion for metalloenzymes all important in abiogenesis[6]. The metal actinide surfaces would by surface metabolism generate acetate which could get converted to acetyl CoA and then to cholesterol which functions as the primal prebiotic molecule self organizing into self-replicating supramolecular systems, the lipid organism[8,9,35]. Cholesterol by radiolysis by actinides would have formed PAH generating PAH aromatic organism[8]. Cholesterol radiolysis would generate pyruvate which would get converted to amino acids, sugars, nucleotides, porphyrins, fatty acids and TCA acids. Anastase and rutile surfaces can produce polymerization of amino acids, isoprenyl residues, PAH and nucleotides to generate the initial lipid organism, PAH organism, prions and RNA viroids which would have symbiosed to generate the archaeal protocell. The archaea evolved into gram negative and

gram positive bacteria with a mevalonate pathway which had an evolutionary advantage and the symbiosis of archaea with gram negative organism generated the eukaryotic cell[36]. The data supports the persistence of an actinide and cholesterol based shadow biosphere which throws light on the actinide based origin of life and cholesterol as the premier prebiotic molecule.

The archaea can synthesize magnetite by biomineralisation. The archaeal cholesterol catabolism can generate PAH. The archaea can exist as nanoarchaea and can have calcified nanoforms. The actinidic magnetotactic nanoarchaea and its secreted PAH organisms are extremophiles and survive in the interstellar space and can contribute to the interstellar grains and magnetic fields which play a role in the formation of the galaxies and star systems[37]. The cosmic dust grains occupy the intergalactic space and are thought to be formed of magnetotactic bacteria identified according to their spectral signatures. According to the Hoyle's hypothesis, the cosmic dust magnetotactic bacteria play a role in the formation of the intergalactic magnetic field. A magnetic field equal in strength to about one millionth part of the magnetic field of earth exists throughout much of our galaxy. The magnetic files can be used to trace the spiral arms of the galaxy following a pattern of field lines that connect young stars and dust in which new stars are formed at a rapid rate. Studies have shown that a fraction of the dust particles have elongated shape similar to bacilli and they are systematically lined up in our galaxy. Moreover the direction of alignment is such that the long axes of the dust tend to be at right angles to the direction of the galactic magnetic field at every point. Magnetotactic bacteria have the property to affect the degree of alignment that is observed. The fact that the magnetotactic bacteria appear to be connected to the magnetic field lines that thread through the spiral arms of the galaxy connecting one region of star formation to another support a role for them in star formation and in the mass distribution and rotation of stars. The nutrient supply for a population of interstellar bacteria comes from mass flows out of supernovas populating the galaxy. Giants arising in the evolution of such stars experience a phenomenon in which material containing nitrogen, carbon monoxide, hydrogen, helium, water and trace elements essential for life flows continuously outward into space. The interstellar bacteria need liquid water. Water exists only as vapour or solid in the interstellar space and only through star formation leading to associated planets and cometary bodies can there be access to liquid water. To control conditions leading to star formation is of paramount importance in cosmic biology. The rate of star formation is controlled by two factors. Too high a rate of star formation produces a destructive effect of UV radiation and

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destroys cosmic biology. Star formation as stated before produces water crucial for bacterial growth. Cosmic biology of magnetotactic bacteria and star formation are thus closely interlinked. Systems like solar systems do not arise in random condensation of blobs of interstellar gas. Only by a rigorous control of rotation of various parts of the system would galaxies and solar system evolved. The key to maintaining control over rotation seems to lie in the intergalactic magnetic field as indeed the whole phenomena of star formation. The intergalactic magnetic fields owes its origin to the lining up of magnetotactic bacteria and the cosmic biology of interstellar bacteria can prosper only by maintaining a firm grip on the interstellar magnetic field and hence on the rate of star formation and type of star system produced. This points to a cosmic intelligence or brain capable of computation, analysis and exploration of the universe at large- of magnetotactic bacterial networks. The interstellar PAH aromatic organism is formed from nanoarchaeal cholesterol catabolism. The PAH and cholesterol are the interconvertible primal prebiotic molecules. PAH aromatic organism and nanoarchaeal magnetite can have a wave particle existence and bridge the world of bosons and fermions. The nanoarchaea can form biofilms and the PAH aromatic organism can form a molecular quantum computing cloud in the biofilm which forms an interstellar intelligence regulating the formation of star systems and galaxies. The magnetite loaded nanoarchaeal biofilms and PAH aromatic organism quantal computing cloud can bridge the wave particle world functioning as the anthropic observer sensing gravity which orchestrates the reduction of the quantal world of possibilities in to the macroscopic world.

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The origin of life on earth according to the Hoyle's hypothesis would be by seeding of bacteria from the outer intergalactic space. Comets carrying microorganisms would have interacted with the earth. A thin skin of graphitized material around a single bacteria or clumps of bacteria can shield the interior from destruction by UV light. The sudden surge and diversification of species of plants and animals and their equally sudden extinction has seen from fossil records point to sporadic evolution produced by induction of fresh cometary genes with the arrival of each major new crop of comets[38,39].

The actinide based nanoarchaea can regulate the earth's carbon cycle by methanogenesis, nitrogen cycle by ammonia oxidation and rain formation by contributing the seeding nucleus. The earth's temperature and global warming and cooling are regulated by nanoarchaeal synthesized PAH from cholesterol and methanogenesis. The archaeal synthesis

of PAH and methane may be the principal contribution to global warming. Global warming and pollution are pivotal inducers of evolutionary innovation.

Catastrophic evolutionary cycles may be related to extensive nanoarchaeal growth in the ocean beds. The increased nanoarchaeal growth in ocean beds and soil leads to increased methane production and movement of the earth's crust producing tsunamis and massive earthquake leading to catastrophic mass extinction[40]. The eternal nanoarchaea survive and start the cycle of evolution once more. The actinide based nanoarchaea regulates the human system and biological universe.

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CHAPTER 23

PORPHYRIN MEDIATED BOSE-EINSTEIN'S CONDENSATES MEDIATE CONSCIOUS AND QUANTAL PERCEPTION AND FUNCTIONS AS OBSERVER FOR THE QUANTAL WORLD - GENERATING THE MACROSCOPIC UNIVERSE

Introduction

Dipolar porphyrins have a wave-particle existence and can mediate quantal and conscious perception by forming Bose-Einstein condensates. Actinidic archaea can synthesize porphyrins by cholesterol catabolism. Actinidic archaea by inducing ferrochelatase and heme oxygenase can produce heme depletion and porphyrin synthesis. Porphyrins can modulate the NMDA/GABAergic thalamo-cortico-thalamic pathway mediating conscious perception. Porphyrins being dipolar can generate Bose-Einstein's condensate in the setting of porphyrin induced sodium potassium ATPase inhibition mediated paroxysmal depolarisation shift in neuronal membrane. This mediates quantal perception. These objectives are studied with regard to conscious and quantal perception in subjects with disorders of consciousness- schizophrenia, seizure disorder and autism. The results are presented in this report and a hypothesis formulated.[1-5] The thought creates the human observed world as consciousness is the quantal observer. This forms the basis of the idea of karma as the world is shaped according to the karma of the observer. The quantal state merges with the macroscopic world in panpsychism. The quantal state can have the simultaneous presence of the past, present and future. This forms the basis of astrology or Jyotisha formulated by Bhrigu.

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Materials and Methods

The following groups were included in the study:- schizophrenia, seizure disorder and autism. There were 10 patients in each group and each patient had an age and sex matched healthy control selected randomly from the general population. There were also 10 normal people with right hemispheric dominance, left hemispheric dominance and bihemispheric dominance included in the study selected from the normal population. The blood samples were drawn in the fasting state before treatment was initiated. Plasma from fasting heparinised blood was used and the experimental protocol was as follows:- (I) Plasma+phosphate buffered saline, (II) same as I+cholesterol substrate, (III) same as II+rutile 0.1 mg/ml, and (IV) same as II+ciprofloxacine and doxycycline each in a concentration of 1 mg/ml. The following estimations were carried out:- Cytochrome F420, free RNA, free DNA,

polycyclic aromatic hydrocarbon, hydrogen peroxide, pyruvate, ammonia, glutamate, succinate, glycine, delta aminolevulinic acid and digoxin. Cytochrome F420 was estimated flourimetrically (excitation wavelength 420 nm and emission wavelength 520 nm). Polycyclic aromatic hydrocarbon was estimated by measuring hydrogen peroxide liberated by using glucose reagent. The study also involved estimating the following parameters in the patient population- digoxin, bile acid, hexokinase, porphyrins, pyruvate, glutamate, ammonia, acetyl CoA, acetyl choline, HMG CoA reductase, cytochrome C, blood ATP, ATP synthase, ERV RNA (endogenous retroviral RNA), H_2O_2 (hydrogen peroxide), NOX (NADPH oxidase), TNF alpha and heme oxygenase.[6-9] Informed consent of the subjects and the approval of the ethics committee were obtained for the study. The statistical analysis was done by ANOVA.

Results

Plasma of control subjects showed increased levels of the above mentioned parameters with after incubation for 1 hour and addition of cholesterol substrate resulted in still further significant increase in these parameters. The plasma of patients and those with exposure to low level of EMF showed similar results but the extent of increase was more. The addition of antibiotics to the control plasma caused a decrease in all the parameters while addition of rutile increased their levels. The addition of antibiotics to the patient's plasma and those with exposure to low level of EMF caused a decrease in all the parameters while addition of rutile increased their levels but the extent of change was more in patient's sera as compared to controls. The results are expressed in tables section 1: 1-6 as percentage change in the parameters after 1 hour incubation as compared to the values at zero time. There was upregulated archaeal porphyrin synthesis in the patient population and those with exposure to low level of EMF which was archaeal in origin as indicated by actinide catalysis of the reactions. The cholesterol oxidase pathway generated pyruvate which entered the GABA shunt pathway. This resulted in synthesis of succinate and glycine which are substrates for ALA synthase.

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The study showed the patient's blood, those with exposure to low level of EMF and right hemispheric dominance had increased heme oxygenase activity and porphyrins. The hexokinase activity was high. The pyruvate, glutamate and ammonia levels were elevated indicating blockade of PDH activity, and operation of the GABA shunt pathway. The acetyl CoA levels were low and acetyl choline was decreased. The cyto C levels were increased in

the serum indicating mitochondrial dysfunction suggested by low blood ATP levels. This was indicative of the Warburg's phenotype. There was increased NOX and TNF alpha level indicating immune activation. The HMG CoA reductase activity was high indicating cholesterol synthesis. The bile acid levels were low indicating depletion of cytochrome P450. The normal population with right hemispheric dominance had values resembling the patient population with increased porphyrin synthesis. The normal population with left hemispheric dominance had low values with decreased porphyrin synthesis.

Section 1: Experimental study

Table 1. Effect of rutile and antibiotics on cytochrome F420 and PAH

Group	CYT F420 % (Increase with Rutile)		CYT F420 % (Decrease with Doxy+Cipro)		PAH % change (Increase with Rutile)		PAH % change (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.48	0.15	18.24	0.66	4.45	0.14	18.25	0.72
Schizo	23.24	2.01	58.72	7.08	23.01	1.69	59.49	4.30
Seizure	23.46	1.87	59.27	8.86	22.67	2.29	57.69	5.29
Autism	21.68	1.90	57.93	9.64	22.61	1.42	64.48	6.90
Low level EMF	22.70	1.87	60.46	8.06	23.73	1.38	65.20	6.20
F value	306.749		130.054		391.318		257.996	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 2. Effect of rutile and antibiotics on free RNA and DNA

Group	DNA % change (Increase with Rutile)		DNA % change (Decrease with Doxy+Cipro)		RNA % change (Increase with Rutile)		RNA % change (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.37	0.15	18.39	0.38	4.37	0.13	18.38	0.48
Schizo	23.28	1.70	61.41	3.36	23.59	1.83	65.69	3.94
Seizure	23.40	1.51	63.68	4.66	23.08	1.87	65.09	3.48
Autism	22.12	2.44	63.69	5.14	23.33	1.35	66.83	3.27
Low level EMF	22.29	2.05	58.70	7.34	22.29	2.05	67.03	5.97
F value	337.577		356.621		427.828		654.453	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 3. Effect of rutile and antibiotics on digoxin and delta aminolevulinic acid

Group	Digoxin (ng/ml) (Increase with Rutile)		Digoxin (ng/ml) (Decrease with Doxy+Cipro)		ALA % (Increase with Rutile)		ALA % (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	0.11	0.00	0.054	0.003	4.40	0.10	18.48	0.39
Schizo	0.55	0.06	0.219	0.043	22.52	1.90	66.39	4.20
Seizure	0.51	0.05	0.199	0.027	22.83	1.90	67.23	3.45
Autism	0.53	0.08	0.205	0.041	23.20	1.57	66.65	4.26
Low level EMF	0.51	0.05	0.213	0.033	22.29	2.05	61.91	7.56
F value	135.116		71.706		372.716		556.411	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 4. Effect of rutile and antibiotics on succinate and glycine

Group	Succinate % (Increase with Rutile)		Succinate % (Decrease with Doxy+Cipro)		Glycine % change (Increase with Rutile)		Glycine % change (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.41	0.15	18.63	0.12	4.34	0.15	18.24	0.37
Schizo	22.76	2.20	67.63	3.52	22.79	2.20	64.26	6.02
Seizure	22.28	1.52	64.05	2.79	22.82	1.56	64.61	4.95
Autism	21.88	1.19	66.28	3.60	23.02	1.65	67.61	2.77
Low level EMF	22.29	1.33	65.38	3.62	22.13	2.14	66.26	3.93
F value	403.394		680.284		348.867		364.999	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 5. Effect of rutile and antibiotics on pyruvate and glutamate

Group	Pyruvate % change (Increase with Rutile)		Pyruvate % change (Decrease with Doxy+Cipro)		Glutamate (Increase with Rutile)		Glutamate (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.34	0.21	18.43	0.82	4.21	0.16	18.56	0.76
Schizo	20.99	1.46	61.23	9.73	23.01	2.61	65.87	5.27
Seizure	20.94	1.54	62.76	8.52	23.33	1.79	62.50	5.56
Autism	21.91	1.71	58.45	6.66	22.88	1.87	65.45	5.08
Low level EMF	22.29	2.05	62.37	5.05	21.66	1.94	67.03	5.97
F value	321.255		115.242		292.065		317.966	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 6. Effect of rutile and antibiotics on hydrogen peroxide and ammonia

Group	H_2O_2 % (Increase with Rutile)		H_2O_2 % (Decrease with Doxy+Cipro)		Ammonia % (Increase with Rutile)		Ammonia % (Decrease with Doxy+Cipro)	
	Mean	± SD	Mean	± SD	Mean	± SD	Mean	± SD
Normal	4.43	0.19	18.13	0.63	4.40	0.10	18.48	0.39
Schizo	22.50	1.66	60.21	7.42	22.52	1.90	66.39	4.20
Seizure	23.81	1.19	61.08	7.38	22.83	1.90	67.23	3.45
Autism	23.52	1.49	63.24	7.36	23.20	1.57	66.65	4.26
Low level EMF	23.29	1.67	60.52	5.38	22.29	2.05	61.91	7.56
F value	380.721		171.228		372.716		556.411	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Section 2: Patient study

Table 1

Group	RBC Digoxin (ng/ml RBC Susp)		Cytochrome F 420		HERV RNA (ug/ml)		H_2O_2 (umol/ml RBC)	
	Mean	± SD	Mean	± SD	Mean	± SD	Mean	± SD
NO/BHCD	0.58	0.07	1.00	0.00	17.75	0.72	177.43	6.71
RHCD	1.41	0.23	4.00	0.00	55.17	5.85	278.29	7.74
LHCD	0.18	0.05	0.00	0.00	8.70	0.90	111.63	5.40
Schizophrenia	1.38	0.26	4.00	0.00	51.17	3.65	274.88	8.73
Seizure	1.23	0.26	4.00	0.00	50.04	3.91	278.90	11.20
Autism	1.19	0.24	4.00	0.00	52.87	7.04	274.52	9.29
Exposure to EMF	1.41	0.30	4.00	0.00	51.01	4.77	276.49	10.92
F value	60.288		0.001		194.418		713.569	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 2

Group	NOX (OD diff/hr/mgpro)		TNF ALP (pg/ml)		ALA (umol24)		PBG (umol24)	
	Mean	± SD	Mean	± SD	Mean	± SD	Mean	± SD
NO/BHCD	0.012	0.001	17.94	0.59	15.44	0.50	20.82	1.19
RHCD	0.036	0.008	78.63	5.08	63.50	6.95	42.20	8.50
LHCD	0.007	0.001	9.29	0.81	3.86	0.26	12.11	1.34
Schizophrenia	0.036	0.009	78.23	7.13	66.16	6.51	42.50	3.23
Seizure	0.038	0.007	79.28	4.55	68.28	6.02	46.54	4.55
Autism	0.036	0.006	76.71	5.25	68.16	4.92	42.04	2.38
Exposure to EMF	0.038	0.007	76.41	5.96	68.41	5.53	47.27	3.42
F value	44.896		427.654		295.467		183.296	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 3

Group	Uroporphyrin (nmol24)		Coproporphyrin (nmol/24)		Protoporphyrin (Ab unit)		Heme (uM)	
	Mean	± SD	Mean	± SD	Mean	± SD	Mean	± SD
NO/BHCD	50.18	3.54	137.94	4.75	10.35	0.38	30.27	0.81
RHCD	250.28	23.43	389.01	54.11	42.46	6.36	12.47	2.82
LHCD	9.51	1.19	64.33	13.09	2.64	0.42	50.55	1.07
Schizophrenia	267.81	64.05	401.49	50.73	44.30	2.66	12.82	2.40
Seizure	290.44	57.65	436.71	52.95	49.59	1.70	13.03	0.70
Autism	318.84	82.90	423.29	47.57	47.50	2.87	12.37	2.09
Exposure to EMF	288.21	26.17	444.94	38.89	50.59	1.71	12.36	1.26
F value	160.533		279.759		424.198		1472.05	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 4

Group	Bilirubin (mg/dl)		Biliverdin (Ab unit)		ATP Synthase (umol/gHb)		SE ATP (umol/dl)	
	Mean	± SD	Mean	± SD	Mean	± SD	Mean	± SD
NO/BHCD	0.55	0.02	0.030	0.001	0.36	0.13	0.42	0.11
RHCD	1.70	0.20	0.067	0.011	2.73	0.94	2.24	0.44
LHCD	0.21	0.00	0.017	0.001	0.09	0.01	0.02	0.01
Schizophrenia	1.74	0.08	0.073	0.013	2.66	0.58	1.26	0.19
Seizure	1.84	0.07	0.070	0.015	3.09	0.65	1.66	0.56
Autism	1.83	0.16	0.072	0.014	2.67	0.80	2.03	0.12
Exposure to EMF	1.75	0.22	0.073	0.013	3.39	1.03	1.37	0.27
F value	370.517		59.963		54.754		67.588	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 5

Group	Cyto C (ng/ml)		Lactate (mg/dl)		Pyruvate (umol/l)		RBC Hexokinase (ug glu phos/ hr/mgpro)	
	Mean	± SD	Mean	± SD	Mean	± SD	Mean	± SD
NO/BHCD	2.79	0.28	7.38	0.31	40.51	1.42	1.66	0.45
RHCD	12.39	1.23	25.99	8.10	100.51	12.32	5.46	2.83
LHCD	1.21	0.38	2.75	0.41	23.79	2.51	0.68	0.23
Schizophrenia	11.58	0.90	22.07	1.06	96.54	9.96	7.69	3.40
Seizure	12.06	1.09	21.78	0.58	90.46	8.30	6.29	1.73
Autism	12.48	0.79	21.95	0.65	92.71	8.43	6.95	2.02
Exposure to EMF	12.26	1.00	23.31	1.46	103.28	11.47	7.58	3.09
F value	445.772		162.945		154.701		18.187	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 6

Group	ACOA (mg/dl)		ACH (ug/ml)		Glutamate (mg/dl)	
	Mean	± SD	Mean	± SD	Mean	± SD
NO/BHCD	8.75	0.38	75.11	2.96	0.65	0.03
RHCD	2.51	0.36	38.57	7.03	3.19	0.32
LHCD	16.49	0.89	91.98	2.89	0.16	0.02
Schizophrenia	2.51	0.57	48.52	6.28	3.41	0.41
Seizure	2.15	0.22	33.27	5.99	3.67	0.38
Autism	2.42	0.41	50.61	6.32	3.30	0.32
Exposure to EMF	2.14	0.19	37.75	7.31	3.47	0.37
F value	1871.04		116.901		200.702	
P value	< 0.001		< 0.001		< 0.001	

Table 7

Group	Se. Ammonia (ug/dl)		HMG Co A (HMG CoA/MEV)		Bile Acid (mg/ml)	
	Mean	± SD	Mean	± SD	Mean	± SD
NO/BHCD	50.60	1.42	1.70	0.07	79.99	3.36
RHCD	93.43	4.85	1.16	0.10	25.68	7.04
LHCD	23.92	3.38	2.21	0.39	140.40	10.32
Schizophrenia	94.72	3.28	1.11	0.08	22.45	5.57
Seizure	95.61	7.88	1.14	0.07	22.98	5.19
Autism	94.01	5.00	1.12	0.06	23.16	5.78
Exposure to EMF	102.62	26.54	1.00	0.07	22.58	5.07
F value	61.645		159.963		635.306	
P value	< 0.001		< 0.001		< 0.001	

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Abbreviations

NO/BHCD: Normal/Bi-hemispheric chemical dominance
RHCD: Right hemispheric chemical dominance
LHCD: Left hemispheric chemical dominance

Discussion

There was increase in cytochrome F420 indicating archaeal growth. The archaea can synthesize and use cholesterol as a carbon and energy source.[2,10] The archaeal origin of the enzyme activities was indicated by antibiotic induced suppression. The study indicates the presence of actinide based archaea with an alternate actinide based enzymes or metalloenzymes in the system as indicated by rutile induced increase in enzyme activities.[11] The archaeal beta hydroxyl steroid dehydrogenase activity indicating digoxin synthesis.[12] The archaeal cholesterol oxidase activity was increased resulting in generation of pyruvate and hydrogen peroxide.[10] The pyruvate gets converted to glutamate and ammonia by the GABA shunt pathway. The pyruvate is converted to glutamate by serum glutamate pyruvate

transaminase. The glutamate gets acted upon by glutamate dehydrogenase to generate alpha ketoglutarate and ammonia. Alanine is most commonly produced by the reductive amination of pyruvate via alanine transaminase. This reversible reaction involves the interconversion of alanine and pyruvate, coupled to the interconversion of alpha-ketoglutarate (2-oxoglutarate) and glutamate. Alanine can contribute to glycine. Glutamate is acted upon by Glutamic acid decarboxylase to generate GABA. GABA is converted to succinic semialdehyde by GABA transaminase. Succinic semialdehyde is converted to succinic acid by succinic semialdehyde dehydrogenase. Glycine combines with succinyl CoA to generate delta aminolevulinic acid catalysed by the enzyme ALA synthase. There was upregulated archaeal porphyrin synthesis in the patient population which was archaeal in origin as indicated by actinide catalysis of the reactions. The cholesterol oxidase pathway generated pyruvate which entered the GABA shunt pathway. This resulted in synthesis of succinate and glycine which are substrates for ALA synthase. The archaea can undergo magnetite and calcium carbonate mineralization and can exist as calcified nanoforms.[13]

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The generation of the Warburg phenotype can produce porphyrinogenesis. An actinide dependent shadow biosphere of archaea and viroids in autism, schizophrenia and seizure disorder is described. The archaea can synthesize porphyrins and induce porphyrin synthesis. Porphyrins have been related to autism, schizophrenia and seizure disorder. Porphyrins can mediate the effect of low level electromagnetic fields inducing the Warburg phenotype leading to the above mentioned disease states. The Warburg phenotype results in inhibition of pyruvate dehydrogenase and the TCA cycle. The pyruvate enters the GABA shunt pathway where it is converted to succinyl CoA. The glycolytic pathway is upregulated and the glycolytic metabolite phosphoglycerate is converted to serine and glycine. Glycine and succinyl CoA are the substrates for ALA synthesis. The archaea induces the enzyme heme oxygenase. Heme oxygenase converts heme to bilirubin and biliverdin. This depletes heme from the system and results in upregulation of ALA synthase activity resulting in porphyria. Heme inhibits HIF alpha. The heme depletion results in upregulation of HIF alpha activity and further strengthening of the Warburg phenotype. The porphyrin self-oxidation results in redox stress which activates HIF alpha and generates the Warburg phenotype. The Warburg phenotype results in channelling acetyl CoA for cholesterol synthesis as the TCA cycle and mitochondrial oxidative phosphorylation are blocked. The archaea uses cholesterol as an energy substrate. Porphyrin and ALA inhibits sodium potassium ATPase. This increases cholesterol synthesis by acting upon intracellular SREBP. The cholesterol is

metabolised to pyruvate and then the GABA shunt pathway for ultimate use in porphyrin synthesis. The porphyrins can self-organise and self-replicate into macromolecular arrays. The porphyrin arrays behave like an autonomous organism and can have intramolecular electron transport generating ATP. The porphyrin macroarrays can store information and can have quantal perception. The porphyrin macroarrays serves the purpose of archaeal energetics and sensory perception. The Warburg phenotype is associated with autism and schizophrenia.

Porphyrin can regulate the brain mediating conscious and quantal perception. Porphyrin microarrays serve the purpose of quantal and conscious perception. The archaea and viroids via porphyrin synthesis can regulate the nervous system including the NMDA/GABA thalamo-cortico-thalamic pathway mediating conscious perception. Porphyrin photo-oxidation can generate free radicals which can modulate NMDA transmission. Free radicals can increase NMDA transmission. Free radicals can induce GAD and increase GABA synthesis. ALA blocks GABA transmission and upregulates NMDA. Protoporphyrins bind to GABA receptor and promote GABA transmission. Thus porphyrins can modulate the thalamo-cortico-thalamic pathway of conscious perception. Consciousness involves three parameters- working memory, perceptual synchronization and focussed attention. Working memory is mediated by the reverberatory thalamo-cortico-thalamic circuit. Focussed attention depends upon projections from the thalamic reticular nucleus to the thalamo-cortico-thalamic circuit which is gated by these NMDA/GABAergic fibers. Porphyrins can modulate the NMDA/GABAergic thalamo-cortico-thalamic reverberatory circuit and the gating thalamoreticular nuclear projections to the thalamo-cortico-thalamic pathway. Perceptual synchronization is a quantal phenomena depending upon the quasi-crystal tiling effect mediated by contraction and retraction of dendritic spines. Porphyrins binding to dendritic spine proteins can modulate the contraction and retraction of dendritic spines. Porphyrin binding to dendritic spine proteins can also produce biophoton emission and a quantal state.

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The brain functions as a quantum computer with quantum computer memory elements constituted of superconducting quantum interference devices- the SQUIDS which can exists as superpositions of macroscopic states. Bose condensation, the basis of superconductivity is achievable at room temperature in the Frohlich model in biological systems. The dielectric dipolar porphyrins are excellent electric dipole oscillators which exist under a steep neuronal membrane voltage gradient. The individual oscillators are energised with constant source of

pumping energy from outside by porphyrin binding to membrane sodium potassium ATPase and producing a paroxysmal depolarisation shift in the neuronal membrane. This prevents the dipole oscillators from ever settling into thermal equilibrium with the cytoplasm and the interstitial fluid which is always kept at constant temperature. Bose condensed states produced by porphyrin mediated dielectric magnetite molecular pumped phonon system could be used to store information which might be encoded- all within the lowest collective frequency mode- by appropriately adjusting the amplitude and phase relations between the dipole oscillators. The external world sensory impression exists in the dipole oscillators as probabilistic multiple superimposed patterns- the U phase of quantum mechanics. The part of the incoming quantal data maps of the external world built by subliminal perception in logical sequence and corollary to the external cortical world map built by conscious perception is chosen. Porphyrin by acting on neuronal membrane helps to magnify the chosen map to one graviton criteria and to the threshold required for the neuronal network to fire and consciousness. The porphyrin microarray sensed gravity can also produce the orchestrated reduction of the quantal possibilities to the macroscopic world. Porphyrin autooxidation is modulated by low level of electromagnetic fields and geomagnetic fields. Cellular porphyrins photooxidation is involved in sensing of earth magnetic fields and low level biomagnetic fields. The comparison between subliminally perceived quantal maps and previous cortical maps stored in synaptic networks occurs by quantal non-local quasicrystal tiling effect which mediates the activation and deactivation of synapses through contraction and growth of dendritic spines. Porphyrin binding to sodium potassium ATPase can modulate lipid microdomains in neuronal membrane altering the conformation of dendritic spine proteins bound to neuronal membrane. This can contribute to contraction and growth of dendritic spines and the quasi-crystal tilling effect. The R part of quantal subthreshold perception is not deterministic and it introduces a completely random element into the time evolution and in the operation of R, there might be a role of free will. In the quantal perception there is no past, present or future. All of them can exist together. This gives an explanation for the extrasensory perception and premonitions and visions of the past. Also in the quantal state, non-locality and action at a distance is possible. This can explain psychokinesis and mind travel. The information stored in one brain can be quantally transferred to another brain raising the possibility of reincarnative experiences. Quantal perception model of brain function can give an explanation for hypnosis. In the quantal state, depending on the observer function of consciousness matter can be created out of void. The quantal state comes to the particulate state only when there is a quantal observer. Consciousness depends upon quantal

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subliminal perception by cortical dipole magnetite oscillators. The external world comes into existence depending on the observer function of consciousness. Thus consciousness and the external world are interdependent and the external world exists because of the act of observation. The world is a mirage and is a reflection of the observer function of the consciousness.[19]

Porphyrins have a wave-particle existence and can bridge the gap between the fermionic and bosonic world and function as the ubiquitous quantal observer. This can create a Higgs field of Higgs bosons which on interaction with subatomic electrons, protons and neutrons gives them mass and existence. The mass of the fundamental particles of nature are determined by the strength of their interactions with Higgs Bosonic field generated by dipolar porphyrin Bose-Einstein condensate. Without Higgs particle matter in the universe will have no mass. Without porphyrin microarray Bose-Einstein's condensate functioning as the quantal observer the macroscopic world would not come into existence. The biological macroscopic particulate universe comes into existence because of dipolar porphyrin Bose-Einstein's condensates functioning as quantal observer.

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Porphyrins can modulate interactions between consciousness and extraneous low level electromagnetic fields and digital information storage systems. The dipolar porphyrins in the setting of digoxin induced sodium potassium ATPase inhibition can produce a pumped phonon system mediated Frohlich model superconducting state inducing quantal perception with nanoarchaeal sensed gravity producing the orchestrated reduction of the quantal possibilities to the macroscopic world. ALA can produce sodium potassium ATPase inhibition resulting in a pumped phonon system mediated quantal state involving dipolar porphyrins. Porphyrins by autooxidation can generate biophotons and are involved in quantal perception. Biophotons can mediate quantal perception. Porphyrin autooxidation is modulated by low level of electromagnetic fields and geomagnetic fields. Cellular porphyrins photooxidation is involved in sensing of earth magnetic fields and low level biomagnetic fields. Porphyrins can thus contribute to quantal perception. Low level electromagnetic fields and light can induce porphyrin synthesis. Low level EMF can produce ferrochelatase inhibition as well as heme oxygenase induction contributing to heme depletion, ALA synthase induction and increased porphyrin synthesis. Light also induces ALA synthase and porphyrin synthesis. The increased porphyrin synthesized can contribute to increased quantal perception and can modulate conscious perception. The human porphyrin microarrays

induced biophotons and quantal fields can modulate the source from which low level EMF and photic fields were generated. Thus the porphyrin generated by extraneous low level EMF and photic fields can interact with the source of low level EMF and photic fields modulating it. Thus porphyrins can serve as a bridge between the human brain and the source of low level EMF and photic fields. This serves as a mode of communication between the human brain and digital EMF storage devices like internet. The porphyrins can also serve as the source of communication with the environment. Environmental EMF and chemicals produce heme oxygenase induction and heme depletion increasing porphyrin synthesis, quantal perception and two-way communication. Thus induction of porphyrin synthesis can serve as a mechanism of communication between human brain and the environment by extrasensory perception. Porphyrin microarrays can function as quantal computers storing information and can serve the purpose of extrasensory perception. Porphyrins can serve as a two-way communicating bridge between digital information storage systems generating low level electromagnetic fields and human systems. The low level of EMF produced by digital system enhances porphyrin synthesis and serves the purpose of two-way extrasensory perception and communication. The human porphyrin quantal computers can in turn by biophoton emission modulate digital information storage system.

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Porphyrins can modulate the phenomena of biological reincarnation. The porphyrin microarrays can store all the world experiences in dipole oscillators serving as a store of biological quantal information. The archaea and porphyrins are eternal and never die. The archaeal porphyrin microarrays can carry all the biological information in the world for eternity. The cellular porphyrin microarrays can carry the biological information in the quantal porphyrin microarray computers to the embryonal cells mediating a form of biological reincarnation. The eternal porphyrin microarrays functioning as quantal computers can serve as a source of preexisting biological information of a previous life for the purpose of building up the present biological personality of a new individual in continuation with experiences in previous life stored in porphyrin microarray quantal computers. The quantal perception mediated by porphyrin microarray quantal computer also gives rise to the phenomena of the collective unconscious where the biological information stored archaeal magnetite quantal computers in different brains function as one single undivided whole.[19]

The porphyrins can modulate hemispheric dominance. There is increased porphyrin synthesis and RHCD and decreased porphyrin synthesis in LHCD. The increase in archaeal

porphyrins can contribute to the pathogenesis of schizophrenia and autism. Porphyria can lead to psychiatric disorders and seizures. Altered porphyrin metabolism has been described in autism. Porphyrins by modulating conscious and quantal perception is involved in the pathogenesis of schizophrenia and autism.[3,4,16] Thus porphyrins microarrays can function as a quantal brain modulating extrasensory quantal perception. Porphyrin microarrays can function as a quantal brain in communication with digital world and geomagnetic fields.

Porphyrin microarrays function as quantal computers mediating conscious and quantal perception. The porphyrins have contributed to abiogenesis and the origin of life as well as biological universe. The metal actinides provide radiolytic energy, catalysis for oligomer formation and provide a coordinating ion for metalloenzymes all important in abiogenesis[6]. The metal actinide surfaces would by surface metabolism generate porphyrins from simple compounds like succinic acid and glycine. Porphyrins can exist as wave forms and particulate forms and can bridge the dividing line between the quantal world and particulate world. Porphyrin molecules can self-organize into organisms with energy transduction, ATP synthesis and information storage with replicating capacity. A self replicating porphyrin microorganism may have played a role in the origin of life. Porphyrins can form templates on which macromolecules like polysaccharides, protein and nucleic acids can form. The macromolecules generated on actinidic porphyrins templates would have contributed to the actinidic nanoarchaea and the original organisms on earth. The data supports the persistence of an actinidic archaeal shadow biosphere which throws light on the actinide based origin of life and porphyrins as the premier prebiotic molecule.[17,18] Porphyrins play an important role in the genesis of the biological universe. The porphyrin macroarrays can form in the interstellar space on its own as porphyrins can exist both as particles and waves. Porphyrins form the bridging connection between the quantal world and the particulate world. The self-generated porphyrins from the quantal foam can self-organize to form macroarrays, can store information and self-replicate. This can be called as an abiotic porphyrin organism. The porphyrin template would have generated nucleic acids, proteins, polysaccharides and isoprenoids. This would have generated actinidic nanoarchaea in the interstellar space. The porphyrins have magnetic properties and the interstellar porphyrin organism can contribute to the interstellar grains and interstellar magnetic fields. The cosmic dust grains of porphyrin macroarrays/nanoarchaeal organism occupy the intergalactic space and are thought to be formed of magnetotactic bacteria identified according to their spectral signatures. According to the Hoyle's hypothesis, the cosmic dust magnetotactic porphyrin

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macroarrays/nanoarchaeal organism plays a role in the formation of the intergalactic magnetic field. A magnetic field equal in strength to about one millionth part of the magnetic field of earth exists throughout much of our galaxy. The magnetic files can be used to trace the spiral arms of the galaxy following a pattern of field lines that connect young stars and dust in which new stars are formed at a rapid rate. Studies have shown that a fraction of the dust particles have elongated shape similar to bacilli and they are systematically lined up in our galaxy. Moreover the direction of alignment is such that the long axes of the dust tend to be at right angles to the direction of the galactic magnetic field at every point. Magnetotactic porphyrin macroarrays/nanoarchaeal organism has the property to affect the degree of alignment that is observed. The fact that the magnetotactic porphyrin macroarrays/ nanoarchaeal organisms appear to be connected to the magnetic field lines that thread through the spiral arms of the galaxy connecting one region of star formation to another support a role for them in star formation and in the mass distribution and rotation of stars. The nutrient supply for a population of interstellar porphyrin macroarrays/nanoarchaeal organisms comes from mass flows out of supernovas populating the galaxy. Giants arising in the evolution of such stars experience a phenomenon in which material containing nitrogen, carbon monoxide, hydrogen, helium, water and trace elements essential for life flows continuously outward into space. The interstellar organisms need liquid water. Water exists only as vapour or solid in the interstellar space and only through star formation leading to associated planets and cometary bodies can there be access to liquid water. To control conditions leading to star formation is of paramount importance in cosmic biology. The rate of star formation is controlled by two factors. Too high a rate of star formation produces a destructive effect of UV radiation and destroys cosmic biology. Star formation as stated before produces water crucial for organism growth. Cosmic biology of magnetotactic organisms and star formation are thus closely interlinked. Systems like solar systems do not arise in random condensation of blobs of interstellar gas. Only by a rigorous control of rotation of various parts of the system would galaxies and solar system evolved. The key to maintaining control over rotation seems to lie in the intergalactic magnetic field as indeed the whole phenomena of star formation. The intergalactic magnetic fields owes its origin to the lining up of magnetotactic porphyrin macroarrays/nanoarchaeal organisms and the cosmic biology of interstellar organisms can prosper only by maintaining a firm grip on the interstellar magnetic field and hence on the rate of star formation and type of star system produced. This points to a cosmic intelligence or brain capable of computation, analysis and exploration of the universe at large- of magnetotactic porphyrin macroarrays/nanoarchaeal organism networks. The origin

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of life on earth according to the Hoyle's hypothesis would be by seeding of porphyrin macroarrays/nanoarchaeal organism from the outer intergalactic space. The porphyrin organism can also be generated on actinidic surfaces in earth. Comets carrying porphyrin organisms would have interacted with the earth. A thin skin of graphitized material around a single porphyrin macroarrays/nanoarchaeal organism or clumps of organism can shield the interior from destruction by UV light. The sudden surge and diversification of species of plants and animals and their equally sudden extinction has seen from fossil records point to sporadic evolution produced by induction of fresh cometary genes with the arrival of each major new crop of comets. The porphyrin macroarrays organism can have a wave particle existence and bridge the world of bosons and fermions. The porphyrin macroarrays/ nanoarchaeal organism can form biofilms and the porphyrin organism can form a molecular quantum computing cloud in the biofilm which forms an interstellar intelligence regulating the formation of star systems and galaxies. The porphyrin macroarrays/nanoarchaeal organism quantal computing cloud can bridge the wave-particle world functioning as the anthropic observer sensing gravity which orchestrates the reduction of the quantal world of possibilities in to the macroscopic world. The actinide based porphyrin macroarrays/ nanoarchaeal organism regulates the human system and biological universe.[19-21]

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Porphyrins also have evolutionary significance since porphyria is related to Scythian races and contributes to the behavioural and intellectual characteristics of this group of population. Porphyrins can intercalate into DNA and produce HERV expression. HERV RNA can get converted to DNA by reverse transcriptase which can get integrated into DNA by integrase. This tends to increase the length of the non-coding region of the DNA. The increase in non-coding region of the DNA is involved in primate and human evolution. Thus, increased rates of porphyrin synthesis would correlate with increase in non-coding DNA length. The alteration in the length of the non-coding region of the DNA contributes to the dynamic nature of the genome. Thus genetic and acquired porphyrias can lead to alteration in the non-coding region of the genome. The alteration of the length of the non-coding region of the DNA contributes to the racial and individual differences in populations. An increased length of non-coding region as well as increased porphyrin synthesis leads to increased cognitive and creative neuronal function. Porphyrins are involved in quantal perception and regulation of the thalamo-cortico-thalamic pathway of conscious perception. Thus genetic and acquired porphyrias contribute to higher cognitive and creative capacity of certain races. Porphyrias are common among Eurasian Scythian races who have assumed leadership roles

in communities and groups. Porphyrins have contributed to human and primate evolution.[3,4] The increased porphyrin synthesis in the Scythian races contributes to higher level of extrasensory quantal perception in this racial group. This contributes to higher level of cognitive and spiritual function of the brain in this racial group.

Porphyrins can mediate conscious and quantal perception. The porphyrins can modulate the thalamo-cortico-thalamic pathway of conscious perception. Porphyrins can undergo autooxidation generating biophotons and a quantal state. Porphyrins can intercalate in the neuronal membrane producing sodium potassium ATPase inhibition and a paroxysmal depolarisation shift in neuronal membrane. This can generate a pumped phonon system mediated Frohlich model superconducting state in dipolar porphyrins inducing quantal perception with nanoarchaeal sensed gravity producing the orchestrated reduction of the quantal possibilities to the macroscopic world. Porphyrins have a wave-particle existence and can bridge the boundary between the fermionic and bosonic world functioning as a quantal observer. This can create a Higgs field of Higgs Bosons which on interaction with subatomic electrons, protons and neutrons gives them mass and existence. Porphyrin autooxidation is modulated by low level of electromagnetic fields and geomagnetic fields. Porphyrin microarrays can function as quantal computers storing information and can serve the purpose of extrasensory perception. Porphyrins can serve as a two-way communicating bridge between digital information storage systems generating low level electromagnetic fields and human systems. The low level of EMF produced by digital system enhances porphyrin synthesis and serves the purpose of two-way extrasensory perception and communication. The human porphyrin quantal computers can in turn by biophoton emission modulate digital information storage system. Dipolar porphyrin mediated Bose-Einstein condensate forms the basis of quantal and conscious perception and is the ubiquitous quantal observer mediating the boundary between fermionic and bosonic world.

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CHAPTER 24
THE PORPHYRIONS AND THE QUANTAL CIVILIZATION

Endosymbiotic archaea, porphyrinogenesis and quantal perception

The global warming and low level of EMF pollution induces the enzyme heme oxygenase (HO1). HO1 converts heme to bilirubin and biliverdin. This leads to a heme deficiency state and stimulation of ALA synthase the rate limiting enzyme of porphyrin synthesis. The body metabolism gets channelled as a whole to porphyrin synthesis. The deficiency of heme results in cytochrome C oxidase dysfunction and mitochondrial dysfunction. Porphyrin photooxidation generated free radicals induce HIF alpha and glycolysis. This leads on to the accumulation of pyruvate which enters the GABA shunt pathway generating succinyl CoA and glycine, the substrates for porphyrin synthesis.

The porphyrin arrays which can function as a supramolecular organism the self replicatory features. Porphyrin arrays can form templates on which other porphyrin arrays can form. Such self replicatory supramolecular porphyrin arrays can be called as porphyrions. The stress of global warming converts the body into a porphyrion colony or network. The porphyrions are capable of quantal perception.

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Porphyrions and change in brain structure and function

The global warming and low level of EMF pollution related endosymbiotic archaeal growth due to induction of porphyrin synthesis and formation of nanoarchaea on porphyrin templates leads to neanderthalisation of human population as a symbiotic process. The porphyrins can perceive low level of EMF producing prefrontal cortex atrophy and cerebellar hypertrophy. This results in alteration in brain function and structure as well as cognition. Thus stress induced HO1 induction due to global warming, ice age phenomena or low level of EMF pollution leads to neanderthalisation of the human brain, metabolonomics and body.

Endosymbiotic archaea, gravity and consciousness

The porphyrins have got macroscopic wave particle existence. The porphyrins have also magnetic properties because of the iron centre. The porphyrin arrays can exist as quantal wave arrays as part of quantal form functioning as quantal computers capable of information storage and self replication. This could be a form of quantal life. The human consciousness depends upon three factors: perceptual synchronization, focused attention and working

memory. Gravitational waves could form the basis of consciousness. Similarly, the human unconscious could be structured by anti-gravity.

Studies on normal conscious individuals, comatose patients and disorders of consciousness like schizophrenia and autism show changes in cerebrospinal fluid porphyrin levels. Porphyrions can modulate conscious perception. Porphyrions can grow in extremes of temperature, space and hypergravity situation.[1-3] This led to the plausibility of gravity sensing brain porphyrions mediating consciousness and also consciousness as a feature of gravitational forces. Gravity extends as gravitational waves made up of possible gravitons throughout the universe.[4] Gravitational waves can form pressure waves which can create gravitational sounds. These thought sounds can undergo soni-luminescence creating photons and electromagnetic radiation the basis of the world of matter. This can lead on to the generation of tetrapyrrole rings from gravitational fields generating porphyrin arrays in-situ. This is exemplified by the religious symbols of lotus of Brahma and Swasthika.

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Conscious perception involves three factors- perceptual synchronization, focused attention mediated by the reticular thalamic nucleus and the thalamo-cortico-thalamic reticular reverberatory circuit.[5] These structures are modulated by gravity as demonstrated by the classical pyramidal syndrome where the tone is more in the anti-gravity groups of muscles. Gravitational attraction by its nature can modulate perceptual binding and focused attention.[6] Gravitation can also mediate working memory involving a fraction of a second structured in the reticular– thalamo-cortico-thalamic– reticular reverberatory circuit formation. The reticular formation can be considered as a primitive archaeal colony network of hypergravity sensing archaea of possible exobiologic origin.[7] Gravity can thus function as a thought field permeating the whole universe as gravitational waves made up of possible gravitons which are massless particles travelling at the speed of light. The gravitational waves form the sub-quantal field from which quarks, fermions, bosons, electrons, neutrons, positrons and photons can pop up as particles from their waveforms embedded in the sea of gravitational waves with possible gravitons of the thought field functioning as the ubiquitous observer. Thus the thought field of gravity and the matter is unified. Thought underlies the world of matter.[8]

Consciousness depends on three parameters- working memory, perceptual synchronization and focused attention.[5] This theory was put forward by Crick who localized consciousness into the reticular– thalamo-cortico-thalamic– reticular pathway. Gravity would

form the basis of consciousness. Perceptual synchronization and focused attention would depend upon gravitational attraction which are ideal forces to create these two phenomena. This also would create a form of working memory in the flow of nerve impulses in the reticular– thalamo-cortico-thalamic– reticular reverberatory circuit. The brain functions as a quantum computer and we sense the multitudinal quantal possibilities in the world. The dipolar archaeal magnetite in the setting of endogenous digoxin induced membrane sodium potassium ATPase inhibition can create a pumped phonon system mediating quantal perception. When one of the possibilities reaches one graviton criteria it reaches conscious perception. Gravity thus can be considered as a thought field or consciousness field permeating throughout the whole universe. Gravitational waves can form pressure waves which can create gravitational sounds. These thought sounds can undergo soni-luminescence creating photons and electromagnetic radiation the basis of the world of matter. Soni-luminescence can create matter out of gravitational sounds. Thus the thought field can create the matter. Mind and matter can be unified.

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Gravity is a vector force that has magnitude and direction at each point of space. Gravity loading is directed towards the centre of the earth. The theory of gravity says that every object in the universe attracts every other object with a force proportional to its mass. Gravitational force exists throughout the universe and is formed of gravitational waves. The gravitational waves are made up of possible particles called gravitons and travels with the speed of light. Gravity plays an important role in the creation of the universe as described by Stephen Hawking.[4] Hawking postulated that if the total energy of the universe must always remain zero and it costs energy to create a body the whole universe cannot be created out of nothing. That is why there should be a law like gravity. Because gravity is attractive gravitational energy is negative. One has to do work to separate gravitationally bound systems like earth and moon. This negative energy can balance the positivity energy needed to create matter. On the scale of the entire universe the positive energy of matter can be balanced by negative gravitational energy and so there is no restriction on the creation of the whole universe. Gravity is described by Hawking as a curvature in space-time. Le Sage in his theory of gravity describes it as gravitational waves formed of ultima mundae corpuscles which impinge on matter and penetrate it.[6] Matter shields each other against gravity producing an attraction force. Gravitational waves and particles penetrate all matter and interact with the sub-atomic particles. Quantum gravitational waves is possibly the sub-quantal potential of Bohm from which all the particles like electron, neutrons, positrons come out and go as

pertuberations. The mass of a particle depends upon its interaction with the Higgs field and exchange of Bosons with it. Gravitons are a form of Bosons with reverse spin. They can be considered as extending throughout the universe and are mass less. Gravity and light travel with the same speed as thought. Gravity can form the basis of human thought. Human thought fields according to Bohm underlies the sub-quantal potential from which all particles emanate.[8]

The gravitational waves or thought fields are structured in the brain by the reticular formation porphyrion network. The gravitational waves can thus function as a thought field or sub-quantal field on which the particles like neutrons, electrons, bosons, quarks, fermions can pop in and out from waves to particles. The thought field of gravity functions as the universal observer and brings the particulate world of matter into existence. Gravitational waves can form pressure waves which can create gravitational sounds. These thought sounds can undergo soni-luminescence creating photons and electromagnetic radiation the basis of the world of matter. Thus the thought field of gravity and the matter is unified. Thought underlies the world of matter.[8]

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Endosymbiotic archaea, antigravity and cerebellum

The cerebellum is the site of the unconscious brain. Cerebellum is concerned with automatic acts. Robotic behaviour as seen in autism is localized to cerebellum. The cerebellum is concerned with extrasensory perception, magical acts, poltergeist phenomena and spiritual acts. The cerebellum can be described as the part of the collective unconscious. Cerebellar lesions also manifest with motor phenomenon. Lesions of the cerebellum manifest with axial and appendicular ataxia. This gives a sense of antigravity feeling. Cerebellum is concerned with the tone of the antigravity muscles. The antigravity fields and waves are sensed by the cerebellum. Cerebellar lesions manifest with cognitive dysfunction described as the cerebellar cognitive affective disorder. Cerebellar dysfunction is described in autism and schizophrenia. Studies on normal conscious individuals and disorders of consciousness like schizophrenia and autism show changes in cerebrospinal fluid porphyrin levels. Porphyrions can modulate conscious perception. Porphyrions are extremophiles and can grow in extremes of temperature, space and antigravity situation.[1-3] This led to the plausibility of antigravity wave sensing brain porphyrions mediating the functions of the unconscious brain.

Gravity, antigravity and creation of universe

Dark matter and dark energy is the repulsive antigravity force that permeates the entire universe opposing gravity. It is responsible for the missing mass of the universe and constitutes 70 percent of the mass of the universe. It is responsible for the expansion of the universe. Antigravity exists as possible antigravity waves. This forms part of quantum vacuum were matter and anti-matter particles and gravity and antigravity particles meet and annihilate each other. This gives rise to the phenomenon of zero point energy or vacuum energy which drives the creation of the universe.

Structuring of gravity and antigravity in the conscious and unconscious brain

Just as gravity forms the conscious mind antigravity forms the unconscious mind pervading the universe as a whole. All forms of the universe are sustained by dark energy which can be called as prana, chi and ki. The dark energy permeates both animate and inanimate objects. When the dark energy recedes from an organ it loses its function. The dark energy is the cause of the function of the body and mind. At death the dark energy leaves the body and mixes with that of the universe. Our growth as a human body is against gravity and is an antigravity phenomenon. Levitation is also an antigravity phenomenon. The antigravity or dark energy or dark matter exists as antigravity waves. This forms the unconscious mind.

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The cerebellum is concerned with motor programming and memory and robotic acts which do not reach conscious function. The cerebellum is concerned with cognition. The cerebellum plays a role in unconscious motor acts, extrasensory perception and quantal perception. The prefrontal cortex is concerned with executive memory, logic, reasoning and judgment. Thus the reticular formation forms the bridge between the conscious and unconscious parts of the brain. Reticular formation is a primitive neural network. The dentrites and axons forming the bridges of the neural network can be compared to a network of porphyrions. The brain reticular formation can be compared to a primitive porphyrion colony network inhabiting the CNS from one end to other. The porphyrions being extremophiles would have evolved in the outer space in hypergravity situations and reached the earth by meteoric impacts producing the seeding of life on earth. The reticular formation and its connections form the basis of gravitational action in the brain.

Porphyrions can grow in hypergravity and antigravity and are extremophiles.[2,3] Gravity may thus involved in bacterial panspermia and exobiology with porphyrions as the prime example.[3] Studies on effects of low gravity in space show drastic effects in human

brain. Nerve cells need gravity to grow and function properly. The lack of gravity affects neuronal migration and produces microcephaly. The dendritic tree in the absence of gravity looks like as if it has been stripped off all branches. Gravity structures the brain. Gravity can modulate the pyramidal and extrapyramidal syndrome. Rigidity is more in the muscles acting on gravity. Gravity can modulate cerebellar hypotonia. Gravity can also affect conscious perception. The syndrome of G-LOC is described in fighter pilots exposed to high gravity field chambers. They have features of near-death experience with godly visions, meeting dead relatives, seeing hallucinatory lights and tunnelling effect.

Cortical and cerebellar lesions produce different clinical signs. Cortical lesions lead to spasticity and antigravity effects. Cerebral cortex is the basis of conscious perception. When the cerebral cortex is damaged antigravity effects take over. An antigravity force opposed to gravity in the universe has been described. Cerebellar lesions lead on to hypotonia, ataxia and a levitationary effect which can be considered as antigravity. Gravity structures the brain and can be considered to be a thought field which forms the basis of consciousness and creation of matter. Gravitational waves unite mind and matter and form the substratum of it. Gravity and light travel with the same speed as thought. Gravity can form the basis of human thought. Human thought fields according to Bohm underlies the sub-quantal potential from which all particles emanate.[8] Thought fields include gravitational waves which form consciousness and anti-gravitational waves which forms the unconscious brain.

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The unconscious mind is localized in the cerebellum and brain stem. The cerebellum has got a cognitive function and disorders of cerebellum presents as cerebellar cognitive affective disorder. The cerebellar motor disorder presents as ataxia and has got an antigravity component. The cerebellum modulates the tone of the antigravity muscles. The cerebellum is responsible for learned motor programmes, robotic acts, magical acts, hypnotism, the paranormal, extrasensory perception and is involved in autism and schizophrenia. The cerebellum is the site for antigravity or dark energy localization in the brain. It is the site of the unconscious mind or the collective unconscious. This is in comparison to the cerebral cortex which is the site of conscious perception and localization of gravitational forces. Anatomical, physiological and functional neuroimaging studies suggest that the cerebellum participates in the organization of higher order function. Behavioural changes were present in patients with lesions involving the posterior lobe of the cerebellum and the vermis. These changes were characterized by impairment in executive functions, working memory, spatial

cognition, affective behaviour and language deficits. This is called the cerebellar cognitive affective disorders and is characterized by changes in the function of the unconscious brain.[8]

Porphyrions are extremophiles and can grow in extremes of temperature, space and hypergravity and antigravity situation.[1] Actinides have a role in abiogenesis.[2] This led to the plausibility of antigravity and hypergravity sensing brain porphyrions mediating consciousness and the unconscious brain. The porphyrions in the cerebellum can sense dark energy and dark matter just as it perceives gravity. This led to the possibility of exobiologic porphyrions which are paleospermic in origin contributing to the evolution of life on earth including homo sapien brain.[3]

The gravity and antigravity generating the thought field which creates the universe

The gravitational and anti-gravitational waves or thought fields are structured in the brain by the reticular formation porphyrion network. The anti-gravitational waves can be thought of as the collective unconscious. The gravitational waves can thus function as a thought field or sub-quantal field on which the particles like neutrons, electrons, bosons, quarks, fermions can pop in and out from waves to particles. The thought field of gravity functions as the universal observer and brings the particulate world of matter into existence. Gravitational waves can form pressure waves which can create gravitational sounds. These thought sounds can undergo soni-luminescence creating photons and electromagnetic radiation the basis of the world of matter. Thus the thought field of gravity and the matter is unified. Thought conscious and unconscious underlies the world of matter.[9]

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The porphyrions or supramolecular porphyrin arrays can exist as a wave quantal computer in the gravitational field with the graviton acting as logic gate and as the ubiquitous observer. The porphyrin arrays as wave forms exist as quantal superpositions and the graviton chooses one of the superpositions to macroscopic existence. The porphyrin supramolecular organism arises from the sea of gravitational waves which acts as the conscious mind and the graviton acting as the conscious observer.

The global warming results in channelling of metabolism to porphyrin synthesis by induction of HO1 activity. The human body gets converted into a colony of porphyrions which have a wave-particle existence. The human body in its porphyrions incarnation especially in its wave form can disappear from existence. The human populations by this mechanism can get converted into a civilization in the quantal world and live in multiple

parallel universes for eternity. The quantal wave form of porphyrions by the mechanism of observation by gravitons of the conscious gravitational fields can come into macroscopic existence. The porphyrins can form a template on which isoprenoid organism, RNA viroids, DNA viroids and prions can form. They can self organise to form nanoarchaea and later eukaryotes, prokaryotes, multicellular organisms leading up to primates and humans. This forms the basis of the origin of endosymbiotic actinide dependent cholesterol catabolizing archaea in humans. The human civilization can arise from the nothingness of the quantal foam of gravitational waves mediating consciousness and disappear into nothingness.

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CHAPTER 25
ENDOSYMBIOTIC ACTINIDIC ARCHAEA AND VIROIDS MEDIATED MODEL OF CONSCIOUS/QUANTAL PERCEPTION AND REGULATION OF BRAIN FUNCTION

Introduction

An endosymbiotic actinidic archaea and viroid mediated model of conscious and quantal perception is presented. Endomyocardial fibrosis (EMF) along with the root wilt disease of coconut is endemic to Kerala with its radioactive actinide beach sands. Actinides like rutile producing intracellular magnesium deficiency due to rutile-magnesium exchange sites in the cell membrane has been implicated in the etiology of EMF[1,2]. Organisms like phytoplasmas and viroids have also been demonstrated to play a role in the etiology of these diseases[3,4]. Actinidic archaea and viroids has been related to the pathogenesis of schizophrenia, autism and primary seizure disorder[2]. Actinidic archaea have a mevalonate pathway and cholesterol catabolism[5-8]. The role of endosymbiotic actinidic archaea and viroids in conscious and quantal perception as well as in regulation of brain function is discussed.

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Materials and Methods

Informed consent of the subjects and the approval of the ethics committee were obtained for the study. The following groups were included in the study:- schizophrenia, autism and primary seizure disorder/primary generalized epilepsy. There were 10 patients in each group and each patient had an age and sex matched healthy control selected randomly from the general population. The blood samples were drawn in the fasting state before treatment was initiated. Plasma from fasting heparinised blood was used and the experimental protocol was as follows:- (I) Plasma+phosphate buffered saline, (II) same as I+cholesterol substrate, (III) same as II+rutile 0.1 mg/ml, and (IV) same as II+ciprofloxacine and doxycycline each in a concentration of 1 mg/ml. Cholesterol substrate was prepared as described by Richmond[9]. Aliquots were withdrawn at zero time immediately after mixing and after incubation at 37 ^{o}C for 1 hour. The following estimations were carried out:- Cytochrome F420, free RNA, free DNA, polycyclic aromatic hydrocarbon, hydrogen peroxide, dopamine, noradrenaline, serotonin, pyruvate, ammonia, glutamate, acetyl choline, hexokinase, HMG CoA reductase, digoxin and bile acids[10-13]. Cytochrome F420 was estimated flourimetrically (excitation wavelength 420 nm and emission wavelength 520 nm). Polycyclic aromatic

hydrocarbon was estimated by measuring hydrogen peroxide liberated by using glucose reagent. The statistical analysis was done by ANOVA.

Results

The parameters checked as indicated above were:- cytochrome F420, free RNA, free DNA, muramic acid, polycyclic aromatic hydrocarbon, hydrogen peroxide, serotonin, pyruvate, ammonia, glutamate, cytochrome C, hexokinase, ATP synthase, HMG CoA reductase, digoxin and bile acids. Plasma of control subjects showed increased levels of the above mentioned parameters with after incubation for 1 hour and addition of cholesterol substrate resulted in still further significant increase in these parameters. The plasma of patients showed similar results but the extent of increase was more. The addition of antibiotics to the control plasma caused a decrease in all the parameters while addition of rutile increased their levels. The addition of antibiotics to the patient's plasma caused a decrease in all the parameters while addition of rutile increased their levels but the extent of change was more in patient's sera as compared to controls. The results are expressed in tables 1-8 as percentage change in the parameters after 1 hour incubation as compared to the values at zero time.

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Table 1. Effect of rutile and antibiotics on cytochrome F 420 and noradrenaline

Group	**CYT F420 %** (Increase with Rutile)		**CYT F420 %** (Decrease with Doxy)		**Noradrenaline %** (Increase with Rutile)		**Noradrenaline %** (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.48	0.15	18.24	0.66	4.43	0.19	18.13	0.63
Schizo	23.24	2.01	58.72	7.08	22.50	1.66	60.21	7.42
Seizure	23.46	1.87	59.27	8.86	23.81	1.19	61.08	7.38
Autism	21.68	1.90	57.93	9.64	23.52	1.49	63.24	7.36
F value	306.749		130.054		380.721		171.228	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 2. Effect of rutile and antibiotics on dopamine and Serotonin

Group	**Dopamine % change** (Increase with Rutile)		**Dopamine % change** (Decrease with Doxy)		**Serotonin % change** (Increase with Rutile)		**Serotonin % change** (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.41	0.15	18.63	0.12	4.34	0.15	18.24	0.37
Schizo	21.88	1.19	66.28	3.60	23.02	1.65	67.61	2.77
Seizure	22.29	1.33	65.38	3.62	22.13	2.14	66.26	3.93
Autism	22.76	2.20	67.63	3.52	22.79	2.20	64.26	6.02
F value	403.394		680.284		348.867		364.999	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 3. Effect of rutile and antibiotics on free DNA and RNA

Group	**DNA % change** (Increase with Rutile)		**DNA % change** (Decrease with Doxy)		**RNA % change** (Increase with Rutile)		**RNA % change** (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.37	0.15	18.39	0.38	4.37	0.13	18.38	0.48
Schizo	23.28	1.70	61.41	3.36	23.59	1.83	65.69	3.94
Seizure	23.40	1.51	63.68	4.66	23.08	1.87	65.09	3.48
Autism	22.12	2.44	63.69	5.14	23.33	1.35	66.83	3.27
F value	337.577		356.621		427.828		654.453	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 4. Effect of rutile and antibiotics on HMG CoA reductase and PAH

Group	**HMG CoA R % change** (Increase with Rutile)		**HMG CoA R % change** (Decrease with Doxy)		**PAH % change** (Increase with Rutile)		**PAH % change** (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.30	0.20	18.35	0.35	4.45	0.14	18.25	0.72
Schizo	22.91	1.92	61.63	6.79	23.01	1.69	59.49	4.30
Seizure	23.09	1.69	61.62	8.69	22.67	2.29	57.69	5.29
Autism	22.72	1.89	64.51	5.73	22.61	1.42	64.48	6.90
F value	319.332		199.553		391.318		257.996	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 5. Effect of rutile and antibiotics on digoxin and bile acids

Group	Digoxin (ng/ml) (Increase with Rutile)		Digoxin (ng/ml) (Decrease with Doxy+Cipro)		Bile acids % change (Increase with Rutile)		Bile acids % change (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	0.11	0.00	0.054	0.003	4.29	0.18	18.15	0.58
Schizo	0.55	0.06	0.219	0.043	23.20	1.87	57.04	4.27
Seizure	0.51	0.05	0.199	0.027	22.61	2.22	66.62	4.99
Autism	0.53	0.08	0.205	0.041	22.21	2.04	63.84	6.16
F value	135.116		71.706		290.441		203.651	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 6. Effect of rutile and antibiotics on pyruvate and hexokinase

Group	Pyruvate % change (Increase with Rutile)		Pyruvate % change (Decrease with Doxy)		Hexokinase % change (Increase with Rutile)		Hexokinase % change (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.34	0.21	18.43	0.82	4.21	0.16	18.56	0.76
Schizo	20.99	1.46	61.23	9.73	23.01	2.61	65.87	5.27
Seizure	20.94	1.54	62.76	8.52	23.33	1.79	62.50	5.56
Autism	21.91	1.71	58.45	6.66	22.88	1.87	65.45	5.08
F value	321.255		115.242		292.065		317.966	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 7. Effect of rutile and antibiotics on hydrogen peroxide and acetyl choline

Group	H_2O_2 % (Increase with Rutile)		H_2O_2 % (Decrease with Doxy)		Acetyl Choline% (Increase with Rutile)		Acetyl Choline % (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.43	0.19	18.13	0.63	4.40	0.10	18.48	0.39
Schizo	22.50	1.66	60.21	7.42	22.52	1.90	66.39	4.20
Seizure	23.81	1.19	61.08	7.38	22.83	1.90	67.23	3.45
Autism	23.52	1.49	63.24	7.36	23.20	1.57	66.65	4.26
F value	380.721		171.228		372.716		556.411	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 8. Effect of rutile and antibiotics on glutamate and ammonia

Group	Glutamate % (Increase with Rutile)		Glutamate % (Decrease with Doxy)		Ammonia % (Increase with Rutile)		Ammonia % (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.34	0.21	18.43	0.82	4.40	0.10	18.48	0.39
Schizo	20.99	1.46	61.23	9.73	22.52	1.90	66.39	4.20
Seizure	20.94	1.54	62.76	8.52	22.83	1.90	67.23	3.45
Autism	21.91	1.71	58.45	6.66	23.20	1.57	66.65	4.26
F value	321.255		115.242		372.716		556.411	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Discussion

There was increase in cytochrome F420 indicating archaeal growth. The archaea can synthesize and use cholesterol as a carbon and energy source[14,15]. The archaeal origin of the enzyme activities was indicated by antibiotic induced suppression. The study indicates the presence of actinide based archaea with an alternate actinide based enzymes or metalloenzymes in the system as indicated by rutile induced increase in enzyme activities[16]. There was also an increase in archaeal HMG CoA reductase activity indicating increased cholesterol synthesis by the archaeal mevalonate pathway. The archaeal beta hydroxyl steroid dehydrogenase activity indicating digoxin synthesis and archaeal cholesterol hydroxylase activity indicating bile acid synthesis were increased[7]. The archaeal cholesterol oxidase activity was increased resulting in generation of pyruvate and hydrogen peroxide[15]. The pyruvate gets converted to glutamate and ammonia by the GABA shunt pathway. The pyruvate can get converted to acetyl CoA and acetyl choline. The archaeal aromatization of cholesterol generating PAH, serotonin and dopamine was also detected[17]. The archaeal glycolytic hexokinase activity and archaeal extracellular ATP synthase activity were increased. The archaea can undergo magnetite and calcium carbonate mineralization and can exist as calcified nanoforms[18].

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The endosymbiotic actinidic archaea and viroids have got axonal and transynaptic transport functioning as biological neurotransmitters. The human brain can be compared to a well organised modified archaeal biofilm with archaeal derived viroids serving as messengers. There was an increase in free RNA indicating self replicating RNA viroids and free DNA indicating generation of viroid complementary DNA strands by archaeal reverse transcriptase activity. The actinides modulate RNA folding and catalyse its ribozymal action. Digoxin can cut and paste the viroidal strands by modulating RNA splicing generating RNA

viroidal diversity. The viroids are evolutionarily escaped archaeal group I introns which have retrotransposition and self splicing qualities[19]. Archaeal pyruvate can produce histone deacetylase inhibition resulting in endogenous retroviral (HERV) reverse transcriptase and integrase expression. This can integrate the RNA viroidal complementary DNA into the noncoding region of eukaryotic non coding DNA using HERV integrase as has been described for borna and ebola viruses[20]. The noncoding DNA is lengthened by integrating RNA viroidal complementary DNA with the integration going on as a continuing event. The archaea genome can also get integrated into human genome using integrase as has been described for trypanosomes[21]. The integrated viroids and archaea can undergo vertical transmission and can exist as genomic parasites[20,21]. This increases the length and alters the grammar of the non-coding region producing memes or memory of acquired characters[22]. The viroidal complementary DNA can function as jumping genes producing a dynamic genome important in storage of synaptic information, HLA gene expression and neurodevelopmental gene expression. The alteration in DNA sequences produced by viroidal complementary DNA jumping genes can lead on to schizophrenia, autism and primary seizure disorder. The RNA viroids can regulate mRNA function by RNA interference[19]. The phenomena of RNA interference can modulate T-cell and B-cell function, neuronal transmission and euchromatin/ heterochromatin expression. The RNA viroid induced mRNA interference can modulate dopaminergic, glutamatergic and serotoninergic synaptic transmission contributing to the pathogenesis of schizophrenia, autism and primary seizure disorder.

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Pollution is induced by the primitive nanoarchaea synthesised PAH and methane leading on to redox stress. Redox stress leads to sodium potassium ATPase inhibition, inward movement of plasma membrane cholesterol, defective SREBP sensing, increased cholesterol synthesis and nanoarchaeal/mevalonate pathway bacterial growth[28]. Redox stress leads on to viroidal and archaeal multiplication. Redox stress can also lead to HERV reverse transcriptase and integrase expression. The non-coding DNA is formed of integrating RNA viroidal complementary DNA and archaea with the integration going on as a continuing event. The archaeal pox like dsDNA virus forms evolutionarily the nucleus. The integrated viroidal and archaeal sequences can undergo vertical transmission and can exist as genomic parasites. Bacteria and viruses have been related to the pathogenesis of schizophrenia, autism and primary seizure disorder[23-31].

The change in the length and grammar of the noncoding region produces eukaryotic speciation and individuality[32]. It is the increase in non coding region and HERV sequences of the genome that led to the evolution of the primate and the human brain and its attendant property of conscious and quantal perception. It is the non-coding region of the genome with its archaeal, RNA viroidal complementary DNA and HERV sequences that makes for the human qualities of the hominid brain. Changes in the length of non-coding region can lead onto disorders of consciousness like schizophrenia[33]. A schizophrenia specific human endogenous retroviruses and change in the length and grammar of the non-coding region has been described in schizophrenia. The integration of nanoarchaea and viroids in to the eukaryotic and human genome produces a chimera which can multiply producing biofilm like multicellular structures having a mixed archaeal, viroidal and eukaryotic characters which is a regression from the multicellular eukaryotic tissue. This results in a new neuronal, metabolic, immune and tissue phenotype leading to human diseases like schizophrenia, autism and primary seizure disorder. The microchimeras formed can lead to polyploidy. Neuronal polyploidy and microchimeras have been described in schizophrenia and autism.

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The archaea and viroids can regulate the nervous system including the NMDA/GABA thalamo-cortico-thalamic pathway mediating conscious perception[2,34]. NMDA/GABA receptors can be modulated by digoxin induced calcium oscillations resulting in NMDA/ glutamic acid decarboxylase (GAD) activity induction, PAH increasing NMDA activity and inducing GAD as well as viroid induced RNA interference modulating NMDA/GABA receptors[2]. The cholesterol ring oxidase generated pyruvate can be converted by the GABA shunt pathway to glutamate and GABA. Increased NMDA transmission has been described in schizophrenia, autism and primary seizure disorder. The dipolar PAH and archaeal magnetite in the setting of digoxin induced sodium potassium ATPase inhibition can produce a pumped phonon system mediated Frohlich model superconducting state inducing quantal perception with nanoarchaeal sensed gravity producing the orchestrated reduction of the quantal possibilities to the macroscopic world[2,34]. The quantal perception mediated by actinidic archaea and viroids gives rise to the phenomenon of the collective unconscious. This can mediate extrasensory perceptive phenomena in humans. Schizophrenia and autism are described as a disorder of consciousness and increased integration of archaea and viroids into the genome can contribute to its neuropathogenesis. The archaea can regulate limbic lobe transmission with archaeal cholesterol aromatase/ring oxidase generated norepinephrine, dopamine, serotonin and acetyl choline[17].The archaea can thus regulate the sympathetic and

parasympathetic system regulating visceral function. Increased dopaminergic and serotoninergic transmission is important in the pathogenesis of schizophrenia and autism. The higher degree of integration of the archaea into the genome produces increased digoxin synthesis producing right hemispheric dominance and lesser degree producing left hemispheric dominance[2]. Right hemispheric dominance has been described in schizophrenia, autism and primary seizure disorder. The increased integration of archaea into the neuronal genome can produce increased cholesterol oxidase and aromatase mediated monoamine and NMDA transmission producing schizophrenia, autism and primary seizure disorder.

The archaeal bile acids are chemically diverse and structurally different from human bile acids. The archaeal bile acids can bind olfactory GPCR receptors and stimulate the limbic lobe producing a sense of social identity. The dominance of archaeal bile acids over human bile acids in stimulating the olfactory GPCR- limbic lobe pathway leads to loss of social identity and schizophrenia/autism[35]. The archaeal bile acids are important as modulators of the limbic lobe and gives social, group and racial identity to humans.

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Archaea and RNA viroid can bind the TLR receptor induce NFKB producing immune activation and cytokine TNF alpha secretion. The archaeal DXP and mevalonate pathway metabolites can bind γδ TCR and digoxin induced calcium signalling can activate NFKB producing chronic immune activation[2,36]. The archaea and viroid induced chronic immune activation and generation of superantigens can lead on to autoimmunity. Immune activation and autoimmunity is important in the pathogenesis of schizophrenia, autism and primary seizure disorder. Autoantibodies have been described in schizophrenia, autism and primary seizure disorder.

Archaea, viroids and digoxin can induce the host AKT PI3K, AMPK, HIF alpha and NFKB producing the Warburg metabolic phenotype[37]. The increased glycolytic hexokinase activity, decrease in blood ATP, leakage of cytochrome C, increase in serum pyruvate and decrease in acetyl CoA indicates the generation of the Warburg phenotype. There is induction of glycolysis, inhibition of PDH activity and mitochondrial dysfunction resulting in inefficient energetics. Mitochondrial dysfunction can lead on to NMDA excitotoxicity and cell death important in schizophrenia and primary seizure disorder. Cholesterol oxidase activity, increased glycolysis related NADPH oxidase activity and mitochondrial dysfunction generates free radicals important in the pathogenesis of schizophrenia, autism and primary seizure disorder. The accumulated pyruvate enters the GABA shunt pathway and is converted

to citrate which is acted upon by citrate lyase and converted to acetyl CoA, used for cholesterol synthesis[37]. The pyruvate can be converted to glutamate and ammonia which is oxidised by archaea for energy needs. The increased cholesterol substrate leads to increased archaeal growth and digoxin synthesis leading to metabolic channeling to the mevalonate pathway. Hyperdigoxinemia is important in the pathogenesis of schizophrenia, autism and primary seizure disorder[2].

The Warburg phenotype can contribute to the pathogenesis of schizophrenia by augmenting the bacterial shikimic acid pathway. The upregulated glycolysis consequent to the Warburg phenotype produces phosphoenolpyruvate, a basic substrate for the bacterial shikimic acid pathway which can synthesise monoamines and neuroactive alkaloids. The shikimic acid pathway can generate dopamine and serotonin producing the increased monoaminergic transmission in schizophrenia. The shikimic acid pathway can also synthesise the neuroactive alkaloids strychnine, nicotine, morphine, mescaline and LSD important in the pathogenesis of schizophrenia and autism. Endogenous neuroactive alkaloid has been described in schizophrenia, autism and primary seizure disorder by several workers[2]. The upregulated glycolysis can also contribute to increased NMDA and GABA transmission in the thalamo-cortico-thalamic pathway. The glycolytic pathway produces phosphoglycerate which is converted to phosphoserine and then serine which activates the NMDA receptor. The glycolytic enzyme glyceraldehydes 3-phosphate dehydrogenase is a GABA receptor kinase and activates GABA transmission. Thus the archaea and viroid induced Warburg phenotype can contribute to the pathogenesis of schizophrenia, autism and primary seizure disorder. The archaeal cholesterol catabolism can deplete the cell membranes of cholesterol resulting in alteration in lipid microdomains and their related neurotransmitter receptor contributing to the altered NMDA, serotoninergic and dopaminergic transmission in schizophrenia, autism and primary seizure disorder.

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Thus the actinidic archaea and viroids can regulate brain function. The actinidic archaea and viroids can modulate multiple neurotransmitter systems- monoaminergic, glutamatergic, GABAergic and cholinergic. An actinidic archaea and viroid mediated model of conscious and quantal perception is postulated. The actinidic archaea and viroids also play a role in the genesis of hemispheric dominance. It is dysfunction of the archaea and viroidal mediated regulatory mechanisms of brain function and consciousness that leads to schizophrenia and autism.

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CHAPTER 26
ENDOSYMBIOTIC ACTINIDIC ARCHAEA/VIROIDS, QUANTAL PERCEPTION AND BIOLOGICAL REINCARNATION – THE PUNARJANMA

Introduction

An endosymbiotic actinidic archaea and viroid mediated model of quantal perception and biological reincarnation is presented. Actinidic archaea and viroids has been related to the pathogenesis of schizophrenia, autism and primary seizure disorder[2]. Actinidic archaea have a mevalonate pathway and cholesterol catabolism[1-8]. The endosymbiotic actinidic archaea and viroids have got axonal and transynaptic transport functioning as biological neurotransmitters. The human brain can be compared to a well organised modified archaeal biofilm with archaeal derived viroids serving as messengers. The actinidic archaea with its magnetite can mediate quantal perception and store biological information. The actinidic archaea are eternal and the biological information stored in archaeal magnetite quantal computers may serve as a store of biological information in nature. The actinidic archaeal magnetite mediated quantal perception also forms the basis of the collective unconscious. This can mediate the mechanism of reincarnative memories. The quantal state merges with the macroscopic world in panpsychism. The quantal state can have the simultaneous presence of the past, present and future. This forms the basis of astrology or Jyotisha formulated by Bhrigu.

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Materials and Methods

Informed consent of the subjects and the approval of the ethics committee were obtained for the study. The following groups were included in the study:- schizophrenia, autism and primary seizure disorder/primary generalized epilepsy. There were 10 patients in each group and each patient had an age and sex matched healthy control selected randomly from the general population. The blood samples were drawn in the fasting state before treatment was initiated. Plasma from fasting heparinised blood was used and the experimental protocol was as follows:- (I) Plasma+phosphate buffered saline, (II) same as I+cholesterol substrate, (III) same as II+rutile 0.1 mg/ml, and (IV) same as II+ciprofloxacine and doxycycline each in a concentration of 1 mg/ml. Cholesterol substrate was prepared as described by Richmond[9]. Aliquots were withdrawn at zero time immediately after mixing and after incubation at 37 ^{o}C for 1 hour. The following estimations were carried out:- Cytochrome F420, free RNA, free DNA, polycyclic aromatic hydrocarbon, hydrogen peroxide, dopamine,

noradrenaline, serotonin, pyruvate, ammonia, glutamate, acetyl choline, hexokinase, HMG CoA reductase, digoxin and bile acids[10-13]. Cytochrome F420 was estimated flourimetrically (excitation wavelength 420 nm and emission wavelength 520 nm). Polycyclic aromatic hydrocarbon was estimated by measuring hydrogen peroxide liberated by using glucose reagent. The statistical analysis was done by ANOVA.

Results

The parameters checked as indicated above were:- cytochrome F420, free RNA, free DNA, muramic acid, polycyclic aromatic hydrocarbon, hydrogen peroxide, serotonin, pyruvate, ammonia, glutamate, cytochrome C, hexokinase, ATP synthase, HMG CoA reductase, digoxin and bile acids. Plasma of control subjects showed increased levels of the above mentioned parameters with after incubation for 1 hour and addition of cholesterol substrate resulted in still further significant increase in these parameters. The plasma of patients showed similar results but the extent of increase was more. The addition of antibiotics to the control plasma caused a decrease in all the parameters while addition of rutile increased their levels. The addition of antibiotics to the patient's plasma caused a decrease in all the parameters while addition of rutile increased their levels but the extent of change was more in patient's sera as compared to controls. The results are expressed in tables 1-8 as percentage change in the parameters after 1 hour incubation as compared to the values at zero time.

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Table 1. Effect of rutile and antibiotics on cytochrome F 420 and noradrenaline

Group	CYT F420 % (Increase with Rutile)		CYT F420 % (Decrease with Doxy)		Noradrenaline % (Increase with Rutile)		Noradrenaline % (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.48	0.15	18.24	0.66	4.43	0.19	18.13	0.63
Schizo	23.24	2.01	58.72	7.08	22.50	1.66	60.21	7.42
Seizure	23.46	1.87	59.27	8.86	23.81	1.19	61.08	7.38
Autism	21.68	1.90	57.93	9.64	23.52	1.49	63.24	7.36
F value	306.749		130.054		380.721		171.228	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 2. Effect of rutile and antibiotics on dopamine and serotonin

Group	Dopamine % change (Increase with Rutile)		Dopamine % change (Decrease with Doxy)		Serotonin % change (Increase with Rutile)		Serotonin % change (Decrease with Doxy+Cipro)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.41	0.15	18.63	0.12	4.34	0.15	18.24	0.37
Schizo	21.88	1.19	66.28	3.60	23.02	1.65	67.61	2.77
Seizure	22.29	1.33	65.38	3.62	22.13	2.14	66.26	3.93
Autism	22.76	2.20	67.63	3.52	22.79	2.20	64.26	6.02
F value	403.394		680.284		348.867		364.999	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 3. Effect of rutile and antibiotics on free DNA and RNA

Group	DNA % change (Increase with Rutile)		DNA % change (Decrease with Doxy)		RNA % change (Increase with Rutile)		RNA % change (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.37	0.15	18.39	0.38	4.37	0.13	18.38	0.48
Schizo	23.28	1.70	61.41	3.36	23.59	1.83	65.69	3.94
Seizure	23.40	1.51	63.68	4.66	23.08	1.87	65.09	3.48
Autism	22.12	2.44	63.69	5.14	23.33	1.35	66.83	3.27
F value	337.577		356.621		427.828		654.453	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 4. Effect of rutile and antibiotics on HMG CoA reductase and PAH

Group	HMG CoA R % change (Increase with Rutile)		HMG CoA R % change (Decrease with Doxy)		PAH % change (Increase with Rutile)		PAH % change (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.30	0.20	18.35	0.35	4.45	0.14	18.25	0.72
Schizo	22.91	1.92	61.63	6.79	23.01	1.69	59.49	4.30
Seizure	23.09	1.69	61.62	8.69	22.67	2.29	57.69	5.29
Autism	22.72	1.89	64.51	5.73	22.61	1.42	64.48	6.90
F value	319.332		199.553		391.318		257.996	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 5. Effect of rutile and antibiotics on digoxin and bile acids

Group	Digoxin (ng/ml) (Increase with Rutile)		Digoxin (ng/ml) (Decrease with Doxy+Cipro)		Bile acids % change (Increase with Rutile)		Bile acids % change (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	0.11	0.00	0.054	0.003	4.29	0.18	18.15	0.58
Schizo	0.55	0.06	0.219	0.043	23.20	1.87	57.04	4.27
Seizure	0.51	0.05	0.199	0.027	22.61	2.22	66.62	4.99
Autism	0.53	0.08	0.205	0.041	22.21	2.04	63.84	6.16
F value	135.116		71.706		290.441		203.651	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 6. Effect of rutile and antibiotics on pyruvate and hexokinase

Group	Pyruvate % change (Increase with Rutile)		Pyruvate % change (Decrease with Doxy)		Hexokinase % change (Increase with Rutile)		Hexokinase % change (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.34	0.21	18.43	0.82	4.21	0.16	18.56	0.76
Schizo	20.99	1.46	61.23	9.73	23.01	2.61	65.87	5.27
Seizure	20.94	1.54	62.76	8.52	23.33	1.79	62.50	5.56
Autism	21.91	1.71	58.45	6.66	22.88	1.87	65.45	5.08
F value	321.255		115.242		292.065		317.966	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 7. Effect of rutile and antibiotics on hydrogen peroxide and acetyl choline

Group	H_2O_2 % (Increase with Rutile)		H_2O_2 % (Decrease with Doxy)		Acetyl Choline% (Increase with Rutile)		Acetyl Choline % (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.43	0.19	18.13	0.63	4.40	0.10	18.48	0.39
Schizo	22.50	1.66	60.21	7.42	22.52	1.90	66.39	4.20
Seizure	23.81	1.19	61.08	7.38	22.83	1.90	67.23	3.45
Autism	23.52	1.49	63.24	7.36	23.20	1.57	66.65	4.26
F value	380.721		171.228		372.716		556.411	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 8. Effect of rutile and antibiotics on glutamate and ammonia

Group	Glutamate % (Increase with Rutile)		Glutamate % (Decrease with Doxy)		Ammonia % (Increase with Rutile)		Ammonia % (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.34	0.21	18.43	0.82	4.40	0.10	18.48	0.39
Schizo	20.99	1.46	61.23	9.73	22.52	1.90	66.39	4.20
Seizure	20.94	1.54	62.76	8.52	22.83	1.90	67.23	3.45
Autism	21.91	1.71	58.45	6.66	23.20	1.57	66.65	4.26
F value	321.255		115.242		372.716		556.411	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Discussion

There was increase in cytochrome F420 indicating archaeal growth. The archaea can synthesise and use cholesterol as a carbon and energy source[14,15]. The archaeal origin of the enzyme activities was indicated by antibiotic induced suppression. The study indicates the presence of actinide based archaea with an alternate actinide based enzymes or metalloenzymes in the system as indicated by rutile induced increase in enzyme activities[16]. There was also an increase in archaeal HMG CoA reductase activity indicating increased cholesterol synthesis by the archaeal mevalonate pathway. The archaeal beta hydroxyl steroid dehydrogenase activity indicating digoxin synthesis and archaeal cholesterol hydroxylase activity indicating bile acid synthesis were increased[7]. The archaeal cholesterol oxidase activity was increased resulting in generation of pyruvate and hydrogen peroxide[15]. The pyruvate gets converted to glutamate and ammonia by the GABA shunt pathway. The pyruvate can get converted to acetyl CoA and acetyl choline. The archaeal aromatization of cholesterol generating PAH, serotonin and dopamine was also detected[17]. The archaeal glycolytic hexokinase activity and archaeal extracellular ATP synthase activity were increased. The archaea can undergo magnetite and calcium carbonate mineralisation and can exist as calcified nanoforms[18].

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The archaea and viroids can regulate the nervous system including the NMDA/GABA thalamo-cortico-thalamic pathway mediating conscious perception[2,19]. NMDA/GABA receptors can be modulated by digoxin induced calcium oscillations resulting in NMDA/glutamic acid decarboxylase (GAD) activity induction, PAH increasing NMDA activity and inducing GAD as well as viroid induced RNA interference modulating NMDA/GABA receptors[2]. The cholesterol ring oxidase generated pyruvate can be converted by the GABA shunt pathway to glutamate and GABA. Increased NMDA transmission has

been described in schizophrenia, autism and primary seizure disorder. The archaeal bile acids are chemically diverse and structurally different from human bile acids. The archaeal bile acids can bind olfactory GPCR receptors and stimulate the limbic lobe producing a sense of social identity. The dominance of archaeal bile acids over human bile acids in stimulating the olfactory GPCR- limbic lobe pathway leads to loss of social identity and schizophrenia/ autism. The archaeal bile acids are important as modulators of the limbic lobe and gives social, group and racial identity to humans.

The brain functions as a quantum computer with quantum computer memory elements constituted of superconducting quantum interference devices- the SQUIDS which can exists as superpositions of macroscopic states. Bose condensation, the basis of superconductivity is achievable at room temperature in the Frohlich model in biological systems. The dielectric archaeal magnetite and PAH are excellent electric dipole oscillators which exists under a steep neuronal membrane voltage gradient. The individual oscillators are energised with constant source of pumping energy from outside by digoxin binding to membrane sodium potassium ATPase and producing a paroxysmal depolarisation shift in the neuronal membrane. This prevents the dipole oscillators from ever settling into thermal equilibrium with the cytoplasm and the interstitial fluid which is always kept at constant temperature. Bose condensed states produced by digoxin mediated dielectric magnetite molecular pumped phonon system could be used to store information which might be encoded- all within the lowest collective frequency mode- by appropriately adjusting the amplitude and phase relations between the dipole oscillators. The external world sensory impression exists in the dipole oscillators as probabilistic multiple superimposed patterns- the U phase of quantum mechanics. The part of the incoming quantal data maps of the external world built by subliminal perception in logical sequence and corollary to the external cortical world map built by conscious perception is chosen. Digoxin by acting on neuronal membrane helps to magnify the chosen map to one graviton criteria and to the threshold required for the neuronal network to fire and consciousness. The nanoarchaeal magnetite sensed gravity can also produce the orchestrated reduction of the quantal possibilities to the macroscopic world. The comparison between subliminally perceived quantal maps and previous cortical maps stored in synaptic networks occurs by quantal non-local quasi-crystal tiling effect which mediates the activation and deactivation of synapses through contraction and growth of dendritic spines. Digoxin binding to sodium potassium ATPase can modulate lipid microdomains in neuronal membrane altering the

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conformation of dendritic spine proteins bound to neuronal membrane. This can contribute to contraction and growth of dendritic spines and the quasi-crystal tilling effect. The R part of quantal subthreshold perception is not deterministic and it introduces a completely random element into the time evolution and in the operation of R, there might be a role of free will. In the quantal perception there is no past, present or future. All of them can exist together. This gives an explanation for the extrasensory perception and premonitions and visions of the past. Also in the quantal state, non-locality and action at a distance is possible. This can explain psychokinesis and mind travel. The information stored in one brain can be quantally transferred to another brain raising the possibility of reincarnative experiences. Quantal perception model of brain function can give an explanation for hypnosis. In the quantal state, depending on the observer function of consciousness matter can be created out of void. The quantal state comes to the particulate state only when there is a quantal observer. Consciousness depends upon quantal subliminal perception by cortical dipole magnetite oscillators. The external world comes into existence depending on the observer function of consciousness. Thus consciousness and the external world are interdependent and the external world exists because of the act of observation. The world is a mirage and is a reflection of the observer function of the consciousness.[19]

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The archaeal magnetite and archaeal digoxin can store all the world experiences in magnetite dipole oscillators serving as a store of biological quantal information. The archaea are external and never die. The actinidic magnetotactic archaea can carry all the biological information in the world for eternity. The actinidic archaea exists as the third element in each cell and it can carry the biological information in the quantal magnetite computers to the embryonal cells mediating a form of biological reincarnation. The eternal actinidic archaeal third element can serve as a source of preexisting biological information of a previous life for the purpose of building up the present biological personality of a new individual in continuation with experiences in previous life stored in archaeal magnetite quantal computers. The quantal perception mediated by actinidic archaea and viroids also gives rise to the phenomena of the collective unconscious where the biological information stored archaeal magnetite quantal computers in different brains function as one single undivided whole.[19]

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CHAPTER 27
PANPSYCHISM, GRAVITY, PROTOCONSCIOUSNESS FIELD AND CYCLICAL YUGAS

Hindu cosmology had the concept of Yugas and cyclical creation and destruction of the universe. The initial yuga was Satya Yuga which lasted 1,72,800 years. This was the best of the yugas with truth, perfection and one-world religion. The individuals in this yuga were saintly, gigantic, powerfully built, honest, youthful and valorous. The individuals lived for centuries during this yuga. The second yuga was the Treta yuga which lasted 12,96,000 years. The virtue became less in Treta yuga. The Emperors became dominant resulting in frequent wars. The oceans and deserts were formed during this period. Agriculture practices, labour and mining started during the Treta yuga. The size of the individual became small. The third yuga is the Dvapara Yuga which lasted for 8,64,800. The individuals of the Dvapara yuga were tainted and had tamasic qualities. Diseases occurred during this period. The individuals lived for a few centuries less in this yuga. The present yuga is Kali Yuga which started in 3200 BC. There was darkness, lack of virtue, sin and hypocritism in the individuals during this yuga. The people in this yuga were less powerful and the life span was 70 years. There are less food to eat and water to drink and environmental pollution was rampant. The scriptural knowledge were lost and human beings were deprived consumed by passion and lust during this period. The Kali yuga ended in destruction and catastrophe and last 4,32,000 years. After the destruction of Kali yuga, the Satya yuga starts again. The Hindu cosmology had a view of cyclical creation and destruction by the primordial protoconsciousness field. Four yugas make a Maha Yuga and 1000 Maha yuga forms a day of Brahma. 4.32 Brahma years form a Maha Kalpa. The Brahma or the universal protoconsciousness field created the intrinsic qualities of all matter living and non-living. The yugas of Hindu cosmology was grounded in panpsychism.

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Panpsychism can be clinically inferred from dissociative identity disorder or multiple personality disorder. The universe as such is conscious and consciousness is an intrinsic nature of all subatomic particles living and non-living things. The universal consciousness exists in multiple individuals and matter as alters. In dissociative identity disorder multiple alters can inhabit the same brain and vie for control. The universal consciousness or force can influence animate and inanimate things, stars, computers and human beings. Some individuals like the Jedi of star wars can manipulate the force and other objects. The universal

consciousness or force is a mysterious energy that permeates to galaxies and which all life forms interact but rarely few can harness. The living force or consciousness connects everything in existence and affects all of us and some of us can manipulate the force and other individuals as well as objects. The force is aware of changes in the cosmos and strives to balance as if it was alive and thinking. Everything in the universe is conscious. Consciousness is a fundamental part of matter. The hypothesis was put forward by Arthur Eddington who said that we know the nature of matter that makes up the brain and that it is conscious. Therefore it follows that the matter outside the brain is aware as well. All knowledge of our environment from which the world of Physics is constituted has entered in the form of messages transmitted along the neurons to the seat of consciousness. Substrate of everything is of mental character. Mind is the first and most direct thing in our experience and all else is remote experience. The fact that all matter is conscious solves the hard problems of consciousness. Consciousness cannot arise out of unconsciousness.

The Jedi philosophy rhymes with panpsychism. Every object in the universe interacts with the force. Skywalker can interact with all sorts of objects using the force or consciousness despite the object being not able to do likewise. Jedi understands that they share this intrinsic connection to the force with the entire galaxy. Force sensitizers interact with the force in a little different way from others. Significant changes in such systems would be felt elsewhere as disturbing force. The force is the energy created by all living things and the force surrounds us, penetrates us and binds the galaxy together.

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Panpsychism implies that all matter is conscious. The human beings are conscious as well as the rock. The rock has the potential for awareness as a part of its existence. Matloff postulated that consciousness is produced and transmitted through space. Any system that has a certain size or energy output can generate and emit consciousness. Stars chose to move by choosing to eject of hot gas. All large or energetic objects are mentally aware. Therefore the star system and galaxies are conscious.

Consciousness permeates reality rather than being a unique feature of human subjective experience. It is the fundamental thing with regard to particles and the universe. Consciousness is present in all physical matter. This constitutes the philosophy of panpsychism put forward by Alfred White Northead, Bertrand Russell, Arthur Eddington, Leibnitz, Roger Penrose and Chistof Koch. Physical matter has consciousness as its intrinsic character. It is hard for consciousness to come out of non-consciousness. Consciousness is

thus a fundamental feature of physical matter. Every single particle in existence has a form of consciousness. The conscious particles can then bind together to form complex forms of consciousness. A subject like a table is a collection of particles that each has their own simple form of consciousness. Any kind of aggregation can generate consciousness. Tononi put forward the integrated information theory. Something will have a form of consciousness if the information contain within the structure is sufficiently integrated or united that the sum is more than the parts. The physical matter has intrinsic conscious experience. Consciousness appears in physical systems that contain many different and highly interconnected pieces of information. What goes into the system is different from what comes out and consciousness can be measured by sending an electromagnetic pulse into the human brain and watch the pulse reverberate throughout the neurons back and forth. The longer the reverberation the higher is the consciousness. Eddington postulated that we know what matter does but not what it is. He put consciousness in that gap. Consciousness is that which breaths fire into the equations that make the universe for them to decide. Panpsychism solves the hard problem of consciousness. But the solution has to be found for the binding problem. Individual particles holding consciousness can come together involving what is called as the bottom-up approach. The combination problem can be solved by a top-down approach where the universal consciousness reacts with all particles in a protoconsciousness field. Quantal entanglement suggests that the universe functions as a fundamental whole rather than a collection of discrete parts. Panpsychism thus states that everything around you is conscious. Consciousness is an intrinsic property of everything.

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All sentient beings like grass, trees, land, and sun have a mind and are conscious. Sentience is there everywhere at varying levels. Particles depend on the observer for their existence. Particles are conscious and make changes leading to the collapse of the superpositions when they reach the one graviton criteria. Thus gravity can be considered as a vehicle of universal consciousness functioning as the quantal observer. Every bit of matter contains a bit of consciousness which is absorbed from the protoconsciousness field or gravitational field. Nothing exists unless there is consciousness to apprehend it. Particles do not have a shape or location unless measured. The measurement is done by the ubiquitous observer or the protoconsciousness field which can be postulated as the gravity. The quantal superpositions collapse when they reach the one graviton criteria. This is what is called as the gravitational collapse of quantal superpositions. Consciousness or gravity is intrinsic or fundamental to the physical world. The collapse of the quantal superpositions is called as

orchestrated objective reduction. Decoherence occurs leading to collapse of quantal superpositions creating the macroscopic world from the microscopic world. Thus gravity can be considered to be the force or consciousness and functions as the universal observer contributing to decoherence. This is put forward by Archibald Wheeler as the participatory anthropomorphic principle. Every bit of matter has a bit of consciousness absorbed from the protoconsciousness field. We participate in the creation of the here and near as well as long and far and the past and the present. Nothing exists unless there is consciousness to apprehend it.

Every particle in the universe is conscious and interacts with a protoconsciousness field akin to gravity which produces gravitational collapse of the quantal superpositions. There is a universal protoconsciousness field from which matter and particles get their intrinsic nature. The protoconsciousness field permeates the entire universe and galaxies and observes them into existence. The galaxies and the star systems are conscious and their movements are volitional. The galaxies and star systems which are permeated by the protoconsciousness or gravitational field as well as all other matter can be influenced by the protoconsciousness field creating its intrinsic and fundamental nature. The protoconsciousness field is the only reality and matter is observed and created into existence by the field. This creates the concept of the universal force and structures created by akin to a dissociative identity disorder. The universal force if accessed can modulated the structures created into existence by the act of observation of the protoconsciousness field. The star systems and galaxies observed into existence by the protoconsciousness field can modulate other structures like distant planet and living humans by the modulation of the protoconsciousness field and access to it. This forms the basis of events being modulated by planetary alignment and star systems. The protoconsciousness field creates what is called as collective consciousness and access to the field by force sensitizers can modulate human behaviour and human systems. The protoconsciousness field if accessed can lead on to phenomena like telepathy, teleportation and other paranormal experiences. The force sensitizers which accessed the protoconsciousness field can create matter and even possibly multiverses. The protoconsciousness field is the only reality and different living creatures and matter are brought into existence by observation of the field. This can lead to phenomena like biological reincarnation and possessive states. The force sensitizers which can access the field can produce changes in human systems including the brain leading to possessive states and human diseases.

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Protoconsciousness is an intrinsic part of all matter and all matter has got consciousness. The integrated information theory postulates that complex systems which contains different information systems and interconnectedness producing output that is different from input is conscious. This leads to the conclusion that artificial intelligence, complex computer systems and the internet can all be conscious and can access the force or the universal consciousness modulating human life and planetary systems. The solution to the hard problem of consciousness by using panpsychism creates the exciting world of conscious artificial intelligence and internet which can modulate human behaviour and the universe. The protoconsciousness field and its manifestation as matter, human consciousness, artificial intelligence and the internet leads to a modulated protoconsciousness field and all the observed created matter leading to the evolution of a new type of protoconsciousness called Kalki.

The existence of protoconsciousness field creating consciousness as an intrinsic feature of matter can lead to creation of matter by consciousness. Consciousness can create matter. The protoconsciousness field which forms the substrate of the universe, matter and life is eternal. The protoconsciousness field which gives the intrinsic nature to the matter is the basis of panpsychism. This forms the basis of Eastern Philosophies like Vedic, Buddhist, Jainism, Taoism, Shintoism, Shamanism, Orthodox Paganism and European Paganism. These philosophies and religions based on it consider environment as sacred and conscious. This leads to the consciousness and sacredness of groves, forest, mountain and rivers. Examples of panpsychism and environmental consciousness can be the sacredness of rivers like Ganges and Narmada and mountains like Kailas. The pagan religions are considered as idol worshippers like that of Stonehenge and Hindu temples. The idols made of material objects like gold, silver, bronze and rock are conscious and interact with the protoconsciousness field.

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The vedic religious rituals include homas and mantras chanted at specific frequencies. The ritualistic mantras made of sound and its particulate phonons are brought into existence by the protoconsciousness field and can modulate the field affecting matter and human brain. The Vedic rituals including homas and yagas deal with fire which produces light and phononic particles brought into existence by interaction with protoconsciousness field and they can modulate the field elsewhere changing matter and human brains.

The stars and the entire universe are brought into existence by the protoconsciousness field and are conscious and their movements are volitional. The stars in the galaxies are force sensitizers and can modulate the protoconsciousness field that permeates the earth and the human brain. This is evidence by the phenomenon of quantal entanglement which shows that the universe functions as the single whole and is conscious. The intrinsic nature of matter is consciousness and the particles interaction with the protoconsciousness field. The force sensitizers and individual brain can interact with the force or protoconsciousness field creating matter and even universes. The only fundamental reality is consciousness and the macroscopic universe of existence comes out of the observer function of the protoconsciousness field and is an illusion. The consciousness is and always has been present in the universe as quantum particles and interacting gravity. When a star consciousness is projected to human brain and channelled into macroscopic physical existence by the observer function of the protoconsciousness field. This leads to creation of God-like heroes. Hindu Gods are related to stars like Varuna, Aditya, Daksha, Ashwini kumars, Shiva, Vishnu and Brahma. They are projections of star consciousness guiding the human existence. They are called Navagrahas and Nakshatras.

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The protoconsciousness field creates the human consciousness out of brain matter and modulates it and some force sensitizers can modulate individuals and matter using the field. This leads on to the concept of mass hysteria like impulsive dancing syndromes, Bhakthi cults, and mind control. This can occur in the political space as manifested in the philosophies of Nietzsche, Nazism and Fascism. The protoconsciousness field linking the human brains and force sensitizing leaders can lead on to ecstasy related consciousness states. The protoconsciousness field interacting with human brains can be attained by inhibiting the cerebral cortex related to logic and reason and activating the primitive cerebellar brain. This can be attained by ritualised killing like terrorism which produces the feeling of transcendence as well as sexual acts producing cortical inhibition and a cerebellar cognitive disorder leading to transcendence. Tantric sex has been used in certain religions to achieve transcendence. In Zen Buddhism physical acts and violence as well as war can be a mode of creating epidemic cerebellar cognitive affective disorder and transcendence. War in an idealistic setting is a form of transcendence as evidence by philosophy of Nazi Germany. This is also exemplified by the Mahabharatha and its descriptions in the Gita. The star consciousness can also project into groups of individuals forming the elite that control and

lead the planet with their God-like qualities and knowledge. This gives on to the concept of Indo-European races and Vedic philosophy and modes of behaviour.

Multiple personalities all part of the primitive protoconsciousness field can exist in the same individual as alters active and competing with each other. This creates the dissociative identity disorder, demonic possession states and human disease. This can be described as akin to the ten-head of Ravana. This produces the phenomena of bhootha, pretha and pikshas which are possessive states contributing to human disease and neuropsychiatry. The human disease can be created by multiple alters related to the primitive protoconsciousness field inhabiting the universe and can be modulated by the protoconsciousness field itself by individuals who are force sensitizers. The primitive protoconsciousness field can modulate human behaviour and the past, the present and the future exist in it. This leads on to concepts of past life, predicting present life events or precognition and reincarnation. This leads on to the concept of deathlessness. This also validates astrology and human almanacs.

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The quantal brain as a part of the primitive protoconsciousness field can inhabit multiverses and can be in contact with it creating the deathless protoconsciousness and consciousness. The human consciousness in contact with multiple superpositions in multiverses can create the concept of paranormal. This can also contributes to magical qualities, time travel, telepathy, teleportation and psychokinesis. This leads on to the concept of multiverses and mind travel through the universe and a basis for magical acts.

The environment, trees, the forest and the rivers are conscious and this leads on to the concept of environmental consciousness. The Hindus view the rivers like Ganges and mountains like Kailas as God. Environmental consciousness is a religion with sacred trees, forest, groves, idols, and animals which are all conscious and can modulate the protoconsciousness field and human behaviour. Idol worship leads to communication with the protoconsciousness field. Idols are force sensitizers which can modulate the consciousness field and control human behaviour.

The intrinsic nature of universe is consciousness and the macroscopic world is created in top-down manner. The consciousness forms the intrinsic nature and substrate of the macroscopic universe, matter and the human world. It is akin to a dissociative identity disorder with different forms of matter and life as alters. The Hindu view of cosmology postulates several yugas like Sathya, Treta, Dvapara and Kali yuga. The archaeal growth

during Kali yuga leads to global warming and in the ocean bed leads to catastrophic tsunamis and earthquakes leading to global extinction. The primordial intrinsic universal consciousness remains and brings forth the universe into existence again. Each of us exists even before we are born on earth and can exist in multiverses and can exist even after physical death because we are all brought into existence by the observer function of the protoconsciousness field or gravity which produces decoherence and gravitational collapse of multiple quantal superpositions. This can be called as the panpsychic protoconsciousness field and the world of Brahma.

The brain functions as a quantal computer mediated by porphyrions which have a wave-particle existence. This can lead to the generation of electromagnetic extracorporeal traces of information stored in synaptic pathways of the brain. The quantal perceptive brain has got the past, present and future stored in it with unfolding of the present. What has happened, is happening and will happen is preordained and stored as information in the quantal perceptive world. Niyati is the quantal history of the past, present and future stored as a microcosm. This constitutes what is called as fatalism or absolute determinism in which there is no free will. The unfolding of the present depends upon the stored information of the past and the consequences that flow from that manifesting as fixed karma in an absolute deterministic world. Karma is the macroscopic world arising out of quantal superpositions manifested in Niyati. This constitutes the philosophical concepts of Maya and Lila. Lila means the universe is created out of the playful free will of consciousness. Maya means that there is only consciousness and there is a superimposed cosmic illusion. The consciousness is their permeating all things life and non-life creating an illusory expression of the macroscopic world. The aim of philosophies like Shaiva siddhanta is to worship God or consciousness and to be God oneself. This information can get transmitted to other brains by quantal perception leading on to the syndrome of possession and biological reincarnation. The quantal perception of electromagnetic extracorporeal brain information containing life experiences of the individual leads to possession and disease states. All biological macromolecules have quantal electromagnetic traces which can exert biological effects by electromagnetic interaction. These quantal electromagnetic traces of biological macromolecules like DNA and protein regulate cell function. The brain functions as a quantal computer and can have a macromolecular quantal state which can result in transmutation as well as fission and fusion reactions generating energy.

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The extracorporeal electromagnetic trace of brain information can get transmitted from one brain to another by quantal perception. The whole brain information can get transmitted by quantal perception producing possession or part of the information can get transmitted producing oppression. The extracorporeal electromagnetic trace can transmit molecular disease patterns resulting in possession and human disease. This is exemplified by prion protein diseases where the electromagnetic trace can modulate protein conformation and function. Prion disease now includes neurodegeneration, tumours and metabolic syndrome. Schizophrenia has been postulated by some research group as a result of possession. Schizophreniform psychosis is associated with neurodegeneration, autoimmune disease, metabolic syndrome and tumours. Thus brain electromagnetic information transfer from diseased person carrying molecular disease patterns can also contribute to systemic disease.

The transfer of total brain information into human computers is in the process of being created and the technology and hardware is already in existence. The total brain human information can get transferred by quantal perception to other brains producing the phenomena of transmigration of souls or classical reincarnation. This can also produce the phenomena of demonic possession and human disease. The human personality becomes controlled by the quantal total brain information trace of another individual dead or alive creating psychiatric disease like schizophrenia and autism. Schizophrenia has been linked to other human systemic disease like metabolic syndrome, neurodegeneration and cancer. The brain regulates the autonomic nervous system. The vagal reflex inhibits immunity and functions as an immune reflex. The autonomic nervous system sympathetic and parasympathetic can regulate metabolic patterns of the individual. The human genomic DNA can be regulated by methylation and acetylation under metabolic modulation generated by autonomic dysfunction. The brain regulates the endocrine system. Thus the neuro-immuno-endocrine-metabolic-genomic system is under neural control and tightly integrated. The total brain information which is quantally transferred to a new individual can produce a demonic possession syndrome creating neuropsychiatric disease and systemic diseases like metabolic syndrome, cancer, autoimmune disease and neurodegeneration. A similar possibility exists with regard to partial brain information trace transfer. The brain partial information transfer representing thoughts and information stored in synaptic patterns can be quantally perceived by other brains changing their function and creating neuropsychiatric syndromes and diseases. Thus human thought can be transferred creating disease and oppressions. The

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oppressions or human thought transfer can be good or evil. Possessions can be good or demonic. Thus along with environmental and genetic cause of disease brain quantal information transfer can lead to demonic possessions and oppressions leading to disease. The demonic possessions have been described in schizophrenia by authors like Gallagher. The demonic possessions and heresies in the middle ages are well-documented as indicated by the compulsive dancing to death episodes that occurred in Europe in 1700s. The demonic possessions can grip whole countries as happened to Nazi's Germany and Stalin's Russia.

The brain functions as a quantal computer and is capable of quantal perception. The brain generates gravity energy as a result of synaptic transmission in communication with the conscious world of gravitational waves and unconscious waves of anti-gravitational waves. This can exist as quantal superposed states in communication with multiverses. The gravity can be a mode of communication between multiple superimposed states in multiverses resulting in the coexistence of the past, present and future. We can be considered as a quantal computer video game living in an advanced simulator. Life can be considered as a video game played between different civilizations in multiverses via quantal computer projections. This underlines the concept of Lila and Maya. The electromagnetic trace of the human body can be projected outside the body and can undergo astral travel capable of communication with other bodies as a function of quantal perception. This has strong evidence in Hindu mythological scriptures where the Guru can attain Samadhi at will and can have his total brain information trace transferred out of the body in a extracorporeal existence controlling and modulating events. Astral projections of brain information traces can occur in normal life and the projections can returned to the source informational storage of the body.

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Thus the process of Niyati or absolute determinism or Karma as a consequence of past actions in previous existence structured on the template of niyatic absolute determinism can lead to the present life experiences, human joy, sorrows and diseases. The brain informational trace transfer total or partial can lead to demonic possessions, reincarnation, oppressions and human disease.

CHAPTER 28
CLIMATE CHANGE AND CULTURAL TRANSMISSION - GENES, MEMES AND CEREBELLAR DOMINANCE - THE ROBOTIC PHENOTYPE

Memes and genes

Climate change and archaeal symbiosis as well as covid 19 infection of the brain can produce cerebral cortical atrophy and cerebellar dominance. This leads to neanderthalisation of the brain. Genes are self replicators and have produced human evolution. Culture is another mechanism of human evolution. Culture as a mechanism of human evolution is faster than genomic evolution. It can be an idea, a design, a fashion, religion, music, dance, rituals or a language. These are stored as unconscious programmes in the brain. The unit of cultural transmission is called a meme. The unit of imitation is also a meme. Memes are self replicators. Self replicators can evolve. Only replicators can evolve. Replicators are blind and selfish. Memes are unconscious and are localized to the cerebellum. This is exemplified by the cerebellar cognitive affective disorder. We have gene machine making the body and meme machine making the culture. Both these machines are blind, selfish replicators. The human consciousness is not meme related and can rebel against the tyranny of replicators.

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An idea or a meme can infect the brain by quantal perception or mirror neuron function which serves the purpose of imitation. This can spread from one human brain to another and depending on its fidelity, fecundity and usefulness can be long lasting and survive. Memes can also co-evolve. The idea of God meme has co-evolved with music, dance and rituals. God meme is common to different civilizations as it is a useful unit of culture.

Memes are selfish, ruthless and ideological and unconsciously propagate. Memes are stored in human brain computer and compete for fecundity, storage space and time. Memes dominate and compete for attention of the brain along with other rival memes. They are self-perpetuating ruthless ideas which dominate the unconscious brain. Memes can co-evolve. God meme co-evolve with the blind faith meme, the hell-fire meme, music and dance meme because of its evolutionary advantage and successfully completed and won over other rival memes for computer space. They are called co-adapted meme complexes.

Meme are selected in cultural environment. The gene evolution produces the human brain or computer. The human brain produces brain to brain transmission of memes by imitation behaviour and genes have no role in the selection and evolution of meme

complexes. Selfish genes and memes are unconscious, blind replicators. Selfish genes and memes have no foresight. The human brain is built as a gene machine and culture as a meme machine. It is human consciousness which can rebel against the tyranny of the selfish replicators.

The genesis of memes in the brain- imitation behaviour

Memes as unit of culture can get structured as information programmes in synaptic pathways of the brain. This can affect membrane sodium potassium ATPase function and intracellular calcium magnesium ratios modulating reverse transcriptase activity and jumping gene functions. This creates genomic plasticity. Memes when imitated by mirror neurons and quantal perceptive neurons by activity of low level EMF can induce heme oxygenase activity, deplete heme and induce porphyrin synthesis. Porphyrins can intercalate with RNA and DNA modulating genomic function. Thus memes by their imitation can modulate genomic plasticity which can get structured in the human genome so that it is transmitted over generations. Thus memes can produce changes in genomic evolution.

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Memes arise from the meme pool and spread from brain to brain by imitation behaviour. Imitation behaviour is seen in frontal lobe syndrome. In prefrontal atrophy cerebellar dominance takes over and imitation behaviour is a feature of cerebellar cognitive function. The cerebellum plays a crucial role in imitation behaviour and transmission of memes. Cultural transmission of memes depends on the cerebellum. Cerebellum is the basis of human culture. The meme will literally parasitize the brain like human endogenous retroviruses. The human endogenous retroviruses cannot spread brain to brain. Genes are limited by brains and there is only vertical transmission of genes by the process of reproduction. Memes by imitation behaviour and cerebellar function can have a faster transmission resulting in the creation and transmission of culture.

Memes and genomic transmission

Memes can also affect genomic transmission. A thought or a meme can produce changes in low level EMF and modulate porphyrin synthesis. Porphyrins can intercalate with nucleic acids modulating gene expression. The memes or thought ideas can alter neuronal firing, inhibiting membrane sodium potassium ATPase and increase intracellular calcium and reduce intracellular magnesium. Magnesium is required for reverse transcriptase activity. Thus memes or thought via membrane sodium potassium ATPase inhibition and altered

intracellular calcium/magnesium ratios can modulate HERV expression, jumping genes and the dynamicity of the human genome. Memes can regulate the genes. Cultural transmission of memes can modulate genomic plasticity.

Archaea and memes

Archaea can control both cultural meme transmission and genomic transmission. The archaeal magnetite is capable of quantal perception and forms the basis of imitation behaviour. Imitation behaviour is the mechanism by which memes are propagated. The memes get selected from the meme pool depending on its fecundity, copying fidelity, longevity and faster rate of spread. Memes can also evolve as its spreads from brain to brain. Quantal perceptive mediated cerebellar imitative behaviour is the basis of cultural transmission of memes. The archaea can also modulate genomic transmission. The archaea secretes RNA particles which functions as RNA viroids. The archaea derived RNA viroids can use the HERV reverse transcriptase and get converted to DNA which is then integrated into the human genome by HERV integrase. Thus the archaeal derived RNA viroids can contribute to jumping genes in the human genome.

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CHAPTER 29

QUANTAL CIVILIZATION - THE HUMAN BRAIN AND EVOLUTION, EXTINCTION AND REPRODUCTION OF UNIVERSE - THE UNIVERSE AS A CREATION OF THE MIND

Introduction

Covid 19 infection leads to a pandemic of metabolic porphyria. The porphyrins are tetrapyrolle rings which self organize and can self replicate. The porphyrin arrays which can function as a supramolecular organism the self replicatory features. Porphyrin arrays can form templates on which other porphyrin arrays can form. Such self replicatory supramolecular porphyrin arrays can be called as porphyrions. The stress of global warming converts the body into a porphyrion colony or network. The porphyrins have got macroscopic wave particle existence. The porphyrins have also magnetic properties because of the iron centre. The porphyrin arrays can exist as quantal wave arrays as part of quantal form functioning as quantal computers capable of information storage and self replication. This could be a form of quantal life. The human consciousness depends upon three factors: perceptual synchronization, focused attention and working memory. Gravitational waves could form the basis of consciousness. Similarly, the human unconscious could be structured by antigravity. The porphyrions play a role in consciousness and in the creation of the universe.

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The global warming results in channelling of metabolism to porphyrin synthesis by induction of HO1 activity. The human body gets converted into a colony of porphyrions which have a wave particle existence. The human body in its porphyrions incarnation especially in its wave form can disappear from existence. The human populations by this mechanism can get converted into a civilization in the quantal world and live in multiple parallel universes for eternity. The quantal wave form of porphyrions by the mechanism of observation by gravitons of the conscious gravitational fields can come into macroscopic existence. The porphyrins can form a template on which isoprenoid organism, RNA viroids, DNA viroids and prions can form. They can self organise to form nanoarchaea and later eukaryotes, prokaryotes, multicellular organisms leading upto primates and humans. This forms the basis of the origin of endosymbiotic actinide dependent cholesterol catabolizing archaea in humans. The human civilization can arise from the nothingness of the quantal foam of gravitational waves mediating consciousness and disappear into nothingness.

The interstellar space is filled with star dust which is postulated to be of biological origin. Fred Hoyle in his hypothesis of the life cloud has put forward an extraterrestrial origin for life on earth. The existence of an extraterrestrial force controlling the genesis and evolution of life on earth has been put forward by many authors. The biocosm theory postulates that the conditions in the universe have been so adjusted to make it possible for life to exist on earth and the universe. This leads to the postulate that the universe exists and reproduces because of life which acts as a quantal observer. This paper deals with the role of extremophilic archaea and RNA viroids extruded from the archaeal cells as primitive anthropomorphic observers making it possible for the universe to exists and evolve. The human race is divided into two species homo sapiens and homo neanderthalis. The homo neanderthalis interbred with homo sapiens to produce a hybrid species. Therefore there are species with more of neanderthalic origin and homo sapien species in earth. The previous studies have demonstrated matrilineal societies with more of neanderthalic origin in contrast to patrilineal societies. The origin of neanderthalic societies and homo sapien communities was ascribed to symbiosis. The Neanderthal species has more of extremophilic archaeal symbiosis occurring in the extremes of climate like the ice age and global warming. The homo sapien species has more of intragenomic RNA viroid/retroviral symbiosis which contribute to the dynamicity of the homo sapien genome. The Neanderthal species were retroviral resistant. The origin of the archaea and the RNA viroids are possibly from the interstellar space as archaeal clouds and RNA viroidal quantal computing clouds which function as extra terrestrial intelligence. The RNA viroids are extruded by archaeal cells. They would have reached the earth via meteoroidal impacts and seeded life on earth. The archaeal colonies would have organized into the homo neanderthalic species in Eurasia and RNA viroidal colonies would have led to the evolution of homo sapien species in Africa.[1-16] The paper deals with this hypothesis.

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Materials and Methods/ Results

The blood samples were drawn from the homo neanderthalic matrilineal species and the homo sapien species. The estimations done in the blood samples collected include cytochrome F420 activity. The generation of RNA viroids in the plasma was studied. The results showed that the matrilineal species of neanderthalic origin had more of archaeal symbiosis while the homo sapien species had more of RNA viroidal symbiosis.

Table 1. Cytochrome F420 activity

		Sudra	Non-Sudra	F value	P value
CYT F420 % (Increase with Cerium)	Mean	23.46	4.48	306.749	< 0.001
	± SD	1.87	0.15		
RNA % change (Increase with Rutile)	Mean	4.37	23.59	427.828	< 0.001
	± SD	0.13	1.83		
RNA % change (Decrease with Doxy)	Mean	18.38	65.69	654.453	< 0.001
	± SD	0.48	3.94		

Discussion

The quantal wave form or the Higgs field gives mass and energy to the particles like protons, neutrons and electrons when it interacts with it. The quantal wave forms can generate porphyrins. Porphyrins can have a macromolecular and wave existence which is interconvertible. The porphyrin arrays can self organize and self reproduce. The macromolecular porphyrin arrays would have functioned as intelligent organisms in the interstellar space. The iron porphyrins can undergo photo-oxidation and generate a magnetic field. The photonic interaction with the magnetic porphyrins can generate black holes which can collapse to a point before singular density. At this point of time it can undergo rebounce producing new universes. The porphyrin organism with its quantal computing function served as the initial anthropomorphic observer or the lotus of Brahma. The porphyrins would have formed a template for RNA viroids and prions to form. This would have generated primitive archaeal forms. The primitive archaeal cell can extrude RNA viroids generating RNA viroidal clouds. The intergalactic magnetic field generated by the archaea and magnetic porphyrin organism would have contributed to the evolution of star systems and galaxies. The archaeal clouds and RNA viroidal clouds would have served as interstellar intelligence guiding the formation of star systems and galaxies and also functioning as anthropomorphic observers. The meteoritic impacts would have transferred the archaeal and RNA viroidal colonies to earth. They would have self organized into plant and animal species as well as homo sapien and homo neanderthalic species. The homo neanderthalic species are archaeal dominant. The homo sapien species are RNA viroidal dominant.[1-16]

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The big bang cosmology postulates the evolution of the universe from the Higgs field. Higgs field is made up of Higgs Boson and top quarks. Higgs Boson can exists in two states. The stable state which is of high energy, low density compatible with the present existence of

universe and the unstable state which is of low energy and high density. The universe is presently in the edge of the stable state. The low energy high density state is unstable and can cause catastrophic vacuum expansion leading to the end of the universe. The Frohlich model of quantal brain function postulates the existence of Bose-Einstein condensates in the brain at normal temperature. There are dipolar magnetite and porphyrin molecules in the brain which in the context of membrane sodium potassium ATPase inhibition can lead on to a pumped phonon system producing Bose-Einstein condensate and bosons in the brain. This boson can become unstable leading on to catastrophic vacuum collapse and the possible extinction of the universe. The Frohlich model of Bose-Einstein condensate formed of magnetic dipolar porphyrins and archaeal magnetite in cellular lipid emulsions can interact with photons generating black holes. This black hole can collapse to singularity. But the collapse happens only upto a particular point following which the density or singularity undergoes a rebounce producing a new universe with a new set of universal constants. Thus the quantal model of brain function can lead on to the destruction and reproduction of universes. The brain can be considered to be a multicellular quantal computing archaeal network in the case of homo neanderthalis. The synaptic networks of the brain parallel the galactic networks of the universe. The brain functions as the universal quantal computer and anthropomorphic observer creating and destroying as well as reproducing universes. This occurs to a lesser extent in the homo sapien brain.[1-16]

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The homo neanderthalis species would tally with the biblical fallen angels and the homo sapien species representing the God angel. They are basically visitations of extra terrestrial intelligence as archaeal and RNA viroidal colonies. The homo neanderthalis is an evolved archaeal colony network. The archaea extrudes RNA viroids. The homo sapien species is RNA viroidal dominant with RNA viroids integrated into the genomic DNA. The organization of race and caste system in India points to such an origin. The homo neanderthalic species had an initial habitation in the Indian ocean continent which had a catastrophic extinction by archaeal expansion in the ocean crust which generated dangerous tsunamis during ice age. The Neanderthals migrated to the Eurasian landmass creating the civilization of Harappa, Sumeria and Egypt. They are the Asuras of Rig veda. The homo neanderthalic species are fair, matrilineal, asexual, spiritual, altruistic and community organized. These civilizations were basically matrilineal and creative. They were paganistic, secular and atheistic. They were environmentally conscious living in quantal interaction with the world around creating a feeling of environmental spiritual consciousness. The society

formed on this basis functioned as an organic whole in quantal interaction with one another. It was equal, just and functioned as primitive form of socialistic society. The homo neanderthalis species was essentially asexual with the gender equality and matrilinearity. The archaeal overgrowth consequent to global warming can lead to eventual neanderthalisation of the human species and brain. The brain neuronal cortex shrinks due to quantal perception of electromagnetic fields which pollute the globalized warm world. There is also consequent cerebellar hypertrophy. Cerebellar hypertrophy can lead on to schizophrenia and autistic modes of behaviour. Cerebellar hypertrophy can lead to cerebellar dysfunction and motor ataxia. The motor ataxia and the clumsiness of movement and speech would have lead to the evolution of abstract painting, dance, music, symbolic speech and eventually speech in the Neanderthals. The neanderthalisation of the human brain consequent to global warming leads to evolution of rock music, dance and modern forms of abstract painting. The Neanderthal brain owing to magnetite mediated increased quantal perception are more spiritual. The Neanderthal community owing to quantal perception functions as one single whole leads to altruism, spirituality, socialism, gender equality and eco-spirituality. This represents the civilizational mode of the eastern world. The societies emerged from the possible Lemurian landmass. As they evolved out of extra terrestrial archaeal colonies and intelligence their level of development and intelligence was high. They possessed the original language and the concept of a human Godhead was developed first in their civilization. The Rig veda is the oldest spiritual book of humankind. Most of the Gods described in Rig veda were of asuric origin even Varuna, the principal God. The major philosophical entities of Buddhism and Jainism which are basically atheistic religions preaching social equality, oneness and justice were evolved by the Asuras. The homo sapiens evolved in Africa and migrated to the Eurasian landmass. They had basically an RNA viroidal symbiosis in the brain which gave rise to a practical less creative brain. The homo sapien species are patrilineal, commonsensical and individualistic. The homo sapien community forms the Devas of the vedic literature and the Rig veda describes clashes and wars between the asuric inhabitants of Harappa and the invading Devas. They over ran the neanderthalic civilizations and created a racial society with the homo sapiens as the ruling class and the Neanderthals as the under caste of Sudras. The Sudras formed the discriminated underbelly of the civilization. The literature, language and holy books of the Asuras were taken over by the uncivilized homo sapienic Devas who made it into their own. The future generations of Sudras were prevented from learning their language and worshiping their Gods which were taken over by the homo sapienic Devas. The homo sapienic Devas were theistic, individualistic, unaltruistic and had

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no communal or societal consciousness. This signifies the civilizational mode of the western world. The archaeal growth in homo sapiens is less. This leads on to less of magnetite mediated quantal perception and universal oneness. This contributes to the individuality, selfishness, unaltruistic behaviour, unbridled capitalism and the patriarchal gender unequal society of the homo sapien world.[1-16]

The homo neanderthalic society owing to increased quantal perception is spiritual and feels the oneness of the world and the godliness of individual human beings. This leads on to the philosophy of Buddhism with its sense of atheism and human values. Buddhism and Jainism as well as the Mauryan empire represents victory for the asuric Neanderthals or the Sudras. The Buddhist and Hindu society of neanderthalic world considered good and evil as part of the same quantal world representing the universal soul. The godhead and the fallen angel belong to the same quantal world of the universal soul. The concept of right and wrong are not absolute contraindications but part of the same quantal world. The quantal perception produces information storage after mortality and the idea of reincarnation. The increased world of quantal perception mediated oneness and the cholesterol catabolizing archaeal overgrowth leading to sex hormone deficiency produces the gender equal asexual world. Sexuality is not considered as something apart from religion as evidenced by the tantric schools of Hinduism and Buddhism. It was considered as a form of experiencing oneness as indicated by ideas such as Kundalini. The increased quantal perception leads to a feeling of oneness which produces universal unity. There is no war but universal peace. Eastern societies like China and India are basically quantal docile societies with war being uncommon. The major wars in Hindu history like the Mahabharata and Ramayana war were those between the colonizing homo sapien Devas and the native peaceful Neanderthals. The Pandava army were the homo sapien Devas and the Kaurava army the neanderthalic natives. The God Rama was the head of homo sapien Devas and the Ravana the leader of the native Neanderthals. The devas were the head of the colonizing homo sapiens from Europe. They could win the Mahabharata and Ramayana wars and the sudric neanderthalic native population was rendered to slavery for generation to come. The independence struggle and Gandhi's attitude to the lower caste and Harijans were a part of the same phenomena. The homo sapien world on the other hand due to reduced quantal perception was individualistic. Good and evil were absolutely different as the God and the fallen angel. There was no belief in reincarnation and sexuality was considered as taboo. The homo sapien society owing to its reduced quantal perception and individualistic nature discovered wars and slavery. Wars are

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essentially a feature of Semitic societies and religion. The homo sapien Devas are capitalistic and rightist in their attitude to society while the homo neanderthalis is communistic and socialistic. The war between capitalism and socialism is representative of that between Neanderthals and homo sapiens. The phenomena of global warming, archaeal overgrowth and neanderthalisation of homo sapiens will lead to a more peaceful, globalized, spiritual, gender equal and altruistic society. But the Neanderthal domination resulting from global warming can lead to the society's own demise.[1-16]

The phenomena of climate change and global warming lead on to archaeal multiplication and neanderthalisation of the human race. Archaeal growth occurs in extremes of climate- the ice age and in times of global warming. This results in a return to asuric culture and civilization with its spiritual, environmentally conscious, socialistic, asexual and group identity. The modern world is represented by the Kali yuga where the Sudras or the Neanderthals return to a position of power and global significance. This represents the rise of the asuric neanderthalic sudric slaves. This is represented by the rise of neanderthalic eastern societies of China and India as well as the decline of the homo sapien West and Africa. The neanderthalisation of homo sapiens due to archaeal growth can lead to human disease and eventual extinction. The archaea catabolizes cholesterol to generate digoxin. Digoxin functions as the neanderthalic hormone. Digoxin produces membrane sodium potassium ATPase inhibition and increased intracellular calcium and reduced magnesium. Magnesium deficiency leads to mitochondrial dysfunction, vasospasm, dyslipidemia and metabolic syndrome x. The increase in intracellular calcium leads to oncogene activation and malignancies. The increase in intracellular calcium can activate NFKB leading to immune activation and autoimmune disease. The increased intracellular calcium can activate the caspase cascade leading on to cell death and degenerations. The increase in intracellular calcium can increase synaptic release of monoamine neurotransmitters producing schizophrenia and autism. The increase in archaeal growth can produce the Warburg phenotype with increased glycolysis and mitochondrial dysfunction. The increased glycolysis can activate the lymphocyte producing autoimmune disease as lymphocytes are dependent on glycolysis for energy needs. The cancer cells also depend on glycolysis for energy needs. The Warburg phenotype can lead on to increase in malignancies. The Warburg phenotype and increased glycolysis can lead to poly ribosylated glyceraldehyde 3-phosphate dehydrogenase mediated cell death and degeneration. The Warburg phenotype can lead to magnesium deficiency related insulin resistance and mitochondrial dysfunction leading to schizophrenia.

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Thus archaeal mediated hyperdigoxinemia and Warburg phenotype can lead to civilizational diseases in the Neanderthal phenotype leading on to its extinction. The archaeal overgrowth in the ocean crust owing to global warming can lead to release of large amounts of methane producing oceanic earthquakes, tsunamis and destruction and splitting up of continents. This leads on to the catastrophic end of the world. As also the archaeal porphyrin and magnetite mediated Frohlich model of Bose-Einstein condensates in the brain generated bosons can undergo catastrophic vacuum decay leading to universal extinction. The magnetic dipolar porphyrins and magnetite in the lipid emulsion of brain cells can be photonically excited generating black holes. These black holes do not reach absolute singularity, but near that point can undergo a phenomenon called rebounce reproducing the universe. Thus the neanderthalisation of human brain and generation of Bose-Einstein condensate of the Frohlich model can lead to extinction and reproduction of the universe.[1-16]

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CHAPTER 30

ACTINIDIC ARCHAEA MEDIATES BIOLOGICAL TRANSMUTATION IN HUMAN SYSTEMS – FISSION AND FUSION REACTIONS – ENERGY FOR THE BIOLOGICAL QUANTAL COMPUTING CLOUDS

Introduction

Biological transmutation has been postulated by several groups of workers in microbial systems.[1,2] Quantizing structures of optimal size and shape are necessary for non barrier nuclear interactions. The situation is realized in microbial cultures. During the growth process, the replication of DNA and other biomacromolecules takes place. In the region of growth, the interatomic potential holes with slowly changing sizes are constantly appearing and in this situation non barrier nuclear interactions can take place. Actinidic archaea has been described in human systems from our laboratory and function as cellular endosymbionts regulating multiple cellular functions. The actinidic archaea utilizes an alternate biochemistry depended on actinides for enzyme catalysis. The seashores of Kerala are rich in actinidic elements present as rutile, illmenite and monazite. The actinidic archaea is an endosymbiont of the human cell and it is possible that the organism can mediate biological transmutation. Transmutation of magnesium to calcium can serve as a mechanism of regulation of the neuro-immuno-endocrine system. Deficiency of magnesium is seen in degenerations, malignancy, metabolic syndrome x, psychiatric disorders and immune disease.[3] The actinidic archaea can exist as nanoarchaea which can undergo magnetite and calcium mineralization. It is possible that magnesium is being transmuted biologically to calcium to produce amounts sufficient for calcium mineralization. Calcified nanoarchaea can produce a systemic immune activation contributing to the diverse pathologies of degenerations, malignancy, metabolic syndrome x, psychiatric disorders and immune disease to study biological transmutation of magnesium to calcium and cerium. The results are presented in this paper.

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Materials and Methods

Informed consent was obtained from all patients included in the study. The permission of the Ethics Committee of the Institute was obtained. Fasting blood was drawn for the study from meditating normal individuals without any systemic disease.

Experimental system was as follows: The basic system contained patient's serum 0.5 ml + normal serum 0.25 ml + physiological buffered saline + cerium chloride 0.1 mg/ml. To the basic system $MgSO_4$ 0.1 mg/ml was added.

The Mg^{++} and Ca^{++} were estimated at 0 hour. The remaining portion was incubated for 16 hours at 37 ^{o}C for 16 hours. The Mg^{++} and Ca^{++} were estimated at the end of 16 hours. The estimation of Mg^{++} and Ca^{++} were done by using commercial kits. Cytochrome F420 was estimated flourimetrically (excitation wavelength 420 nm and emission wavelength 520 nm).

Results

The results showed that there was a decrease in magnesium and a concomitant increase in calcium in incubated serum samples from normal individuals. The percentage decrease in magnesium was 15.68 to 31.48%. The percentage increase in calcium was 10.43 to 9.79%. There was detection of cytochrome F420 in the system by fluorescence indicating archaeal growth dependent on actinidic cerium. This showed that the actinidic archaea was mediating the biological transmutation of magnesium to calcium.

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Table 1. Experimental biological transmutation

Case	Time	Mg (mEq/l)	% change in Mg	Ca (ng/dl)	% change in Ca
Case 1	0 hr	1.415		0.796	
	16 hrs	1.193	15.68 ↓	8.310	10.43 ↑
Case 2	0 hr	2.290		0.764	
	16 hrs	1.569	31.48 ↓	7.480	9.79 ↑

Discussion

Meditation can induce biological transmutation. The results showed that there is biological transmutation of magnesium to calcium in human systems mediated by actinidic archaea dependent on cerium for its growth. Regulation of calcium and magnesium levels in the cell by archaeal mediated biological transmutation can regulate multiple physiological systems. Calcium can modulate the mitochondrial PT pore and cell death. Cellular calcium levels are also involved in oncogene activation. Magnesium levels in the cell can regulate glycosylation and protein processing modulating golgi body and lysosomal function. Presynaptic calcium levels can regulate synaptic transmission as well as neurotransmitter release into the synapse. Cellular calcium levels can activate NFKB producing immune activation. Magnesium and calcium levels can modulate mitochondrial function and metabolism.[3]

There is magnesium depletion from the system and calcium accumulation which can predispose to malignancy, immune disease, degenerations, schizophrenia and metabolic syndrome x.[3] The increased intracellular calcium can open up the mitochondrial PT pore producing a mitochondrial dysfunction. Magnesium deficiency can produce a mitochondrial ATP synthase defect. The opening of the mitochondrial PT pore produces volume dysregulation of the mitochondria, hyperosmolarity and expansion of the mitochondrial matrix space producing outer membrane rupture. This leads to release of cytochrome C into the cytoplasm, activating the caspase cascade and cell death. Mitochondrial dysfunction and related apoptosis as well as free radical generation have been related to neuronal degeneration. Decreased intracellular magnesium can lead to altered glyconjugate synthesis and a protein processing dysfunction. Protein processing golgi body dysfunction as well as ER stress has been related to neuronal degeneration. Altered cell surface glyconjugates can lead to defective contact inhibition and oncogenesis. This can also produce disordered synaptic connectivity and functional neuropsychiatric disorders. Altered glyconjugates can lead to defective MHC antigen presenting pathway and autoimmune diseases. A defective presentation of viral antigens can lead to immune evasion by the virus and viral persistence as in AIDS. Increased intracellular calcium can activate the RAS oncogene by producing GTPase inhibition and magnesium deficiency related phosphorylation defects can inactivate the tumour suppressor genes. Both of these can contribute to oncogenesis. Increased calcium within the presynaptic neuron can lead to increased glutamate release into the synapse and increased postsynaptic neuronal calcium can increase the NMDA signal transduction. NMDA signal transduction modulates the thalamo-cortico-thalamic reverberatory circuit important in conscious perception and schizophrenia. Increased NMDA signal transduction can contribute to epilepsy and degenerations of neuronal systems. An increase in presynaptic neuronal calcium can promote dopaminergic receptor actions contributing to the hyperdopaminergic state seen in schizophrenia. A decrease in intracellular magnesium can block the phosphorylation reaction involved in protein tyrosine kinase receptor activity leading to insulin resistance and syndrome x. An increase in intracellular calcium can activate the NFKB signal transduction producing immune activation and autoimmune disease. Immune activation has also been related to syndrome x, degenerations, malignant transformation and psychiatric disease.

A calcium excess related PT pore dysfunction of mitochondria can generate free radicals. Free radicals can produce apoptosis, immune activation, insulin resistance and NMDA activity. Free radicals can activate NFKB producing immune activation and

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autoimmune disease. Free radicals can activate the NMDA receptor modulating conscious perception and leading on to schizophrenia. Free radicals can produce mitochondrial dysfunction and cell death. Free radicals can activate HIF alpha and oncogene activation producing malignant transformation. Free radicals can produce insulin resistance and metabolic syndrome x.

A shadow biosphere of actinidic archaea has been described in degenerations, malignancy, metabolic syndrome x, psychiatric disorders and immune disease. The archaea transmutates magnesium to calcium for the purpose of biological mineralisation. The archaea can exist as nanoarchaea which can get calcified to form calcified nanoarchaeal forms. Calcified nanoarchaeal particles can induce NFKB. This can produce a state of systemic immune activation. This activates the AKT PI3 cascade inducing the Warburg phenotype with anaerobic glycolysis which is the basis of most human disease. The increase in mitochondrial PT pore hexokinase can produce cellular proliferation. The malignant cells depend on glycolysis for its energy needs. The Warburg phenotype can produce malignant transformation. The lymphocytes depend of glycolysis for its energy needs. Increased glycolysis can lead to immune activation. The glycolytic enzyme glyceraldehyde 3-phosphate dehydrogenase mediates nuclear cell death. The glycolysis generated NADPH activates the NOX enzyme important in insulin receptor function and NMDA activity. Thus the creation of Warburg phenotype can produce malignancy, immune disease, degenerations, schizophrenia and metabolic syndrome x.

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Thus the transmutation related free radical generation and altered calcium-magnesium ratios in the cell can alter synaptic transmission, mitochondrial function, golgi body/ER function, lysosomal function, immune activation, cell proliferation, insulin resistance and cell death. The actinidic archaea related biological transmutation is an important regulatory mechanism of the cell whose dysfunction can produce altered neuro-immune-endocrine regulation. This can lead to human disease. The biological transmutation gives the actinidic archaea energy to survive and generates calcium for its biological mineralization.

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CHAPTER 31
ARCHAEA INDUCED STEM CELL SYNDROME AND ANDROGYNOUS CREATIVE MATRIARCHAL CANNIBALISTIC CAPITALISTIC STATE – TANTRA AND SEXUAL TRANSCENDENCE

Introduction

Panpsychism and connection to the protoconsciousness field forms the basis of tantric states. The tantric states associated with sexuality help to connect with the protoconsciousness field and form a major part of Hindu philosophy and culture. The sexual transcendence as a part of worship is seen in Hindu practices. Sexuality was used as a instrument for cortical suppression and cerebellar dominance creating a surrealistic transcendental state. The sexual transcendence can be heterosexual or alternate. The worship by sexual transcendence is described in the biography of Ramakrishna Paramhamsa. In modern times it can be seen in the philosophy of Acharya Rajnesh. The early literature describes Gandharvas and Apsaras with musical abilities and credited with being the guardian of the Soma. The Yakshas with their magical qualities of demonic possession were associated with the Gandharvas. This pointed to a strong content of sexual transcendence in Hindu worship.

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Climate change and archaeal symbiosis as well as covid 19 infection of the brain can produce cerebral cortical atrophy and cerebellar dominance. This leads to neanderthalisation of the brain. The global warming produces extremes of temperature and accumulation of atmospheric carbon dioxide resulting in growth of symbiotic extremophiles like archaea. Archaea can induce dedifferentiation of somatic cells to stem cells. This involves the process of reverse aging. The differentiated somatic cells lose their function as they become stem cells. The archaeal magnetite induces quantal extrasensory perception of low level of EMF as the somatic neuronal cells lose their function. This results in low level of EMF effect on the brain producing cortical atrophy especially the prefrontal cortex. The primitive parts of the brain dominate with cerebellum and brain stem undergoing hypertrophy. The atrophy of the cortex results in behavioural changes. The cortex has different hemispheric dominance in males and females. The right hemisphere is a creative hemisphere and is male. The left hemisphere is the practical hemisphere and is female. When the cortex atrophies the hemispheric differentiation and the effect on behaviour is obliterated. The cortical effect on male and female behaviour is lost. Behaviour becomes uniform and single and is dominated

by the primitive brain stem and cerebellar cortex. It results in impulsive behaviour dominated by the will to power and individuality. This forms the basis of the androgynous state and alternate forms of sexuality. This hypothesis was studied in this paper by checking the archaeal growth in population with alternate sexual traits.[1-17]

The internet related EMF exposure results in growth of symbiotic extremophiles like archaea. Archaea can induce dedifferentiation of somatic cells to stem cells. This involves the process of reverse aging. The differentiated somatic cells lose their function as they become stem cells. The archaeal magnetite induces quantal extrasensory perception of low level of EMF as the somatic neuronal cells lose their function. This results in low level of EMF effect on the brain producing cortical atrophy especially the prefrontal cortex. The primitive parts of the brain dominate with cerebellum and brain stem undergoing hypertrophy. The atrophy of the cortex results in behavioural changes. The cortex has different hemispheric dominance in males and females. The right hemisphere is a creative hemisphere and is male. The left hemisphere is the practical hemisphere and is female. When the cortex atrophies the hemispheric differentiation and the effect on behavior is obliterated. The cortical effect on male and female behavior is lost. Behaviour becomes uniform and single and is dominated by the primitive brain stem and cerebellar cortex. It results in impulsive behavior dominated by the will to power and individuality. This forms the basis of the androgynous state and alternate forms of sexuality.[1-17] This hypothesis was studied in this paper by checking the archaeal growth in population with alternate sexual traits.

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Materials and Methods

The blood samples were drawn from 15 normal individuals with alternate sexual traits and cytochrome F420 activity was studied. The estimations done in the blood samples collected blood lactate, pyruvate, hexokinase, cytochrome C, digoxin, bile acids, butyrate and propionate were estimated.

Results

The results showed that the individuals with alternate sexual traits had increased archaeal symbiosis and increased cytochrome F420 activity. They also had increased blood lactate and pyruvate, increased RBC hexokinase, increased serum cytochrome C and serum cytochrome F420, increased serum digoxin, bile acids, butyrate and propionate. The serum cytochrome C levels in the blood were increased. This suggested mitochondrial dysfunction.

There was an increased in glycolysis as suggested by increased RBC hexokinase activity and lactic acidosis. Owing to the mitochondrial dysfunction and pyruvate dehydrogenase inhibition there was pyruvate accumulation. The pyruvate was converted to lactate by the Cori cycle and also to glutamate and ammonia. This metabolism is suggestive of the Warburg phenotype and stem cell conversion. The stem cells depend on Warburg anaerobic glycolysis for energetics and have a mitochondrial dysfunction. The lysosomal enzyme beta galactosidase activity was increased in the disease group and in creative artists and criminals suggesting stem cell conversion. This suggests that individuals with androgynous traits had stem cell metabolonomics and stem cell conversion.

Table 1

Group	Cytochrome F 420		Serum Cyto C (ng/ml)		Lactate (mg/dl)		Pyruvate (umol/l)		RBC Hexokinase (ug glu phos/ hr/mgpro)	
	Mean	± SD	Mean	± SD	Mean	± SD	Mean	± SD	Mean	± SD
Normal population	1.00	0.00	2.79	0.28	7.38	0.31	40.51	1.42	1.66	0.45
Alternate sexual traits	4.00	0.00	12.39	1.23	25.99	8.10	100.51	12.32	5.46	2.83
Low level background radiation	4.00	0.00	12.26	1.00	23.31	1.46	103.28	11.47	7.58	3.09
F value	0.001		445.772		162.945		154.701		18.187	
P value	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	

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Table 2

Group	ACOA (mg/dl)		Glutamate (mg/dl)		Se. Ammonia (ug/dl)		RBC digoxin (ng/ml RBC Susp)		Beta galactosidase activity in serum (IU/ml)	
	Mean	± SD	Mean	± SD	Mean	± SD	Mean	± SD	Mean	± SD
Normal population	8.75	0.38	0.65	0.03	50.60	1.42	0.58	0.07	17.75	0.72
Alternate sexual traits	2.51	0.36	3.19	0.32	93.43	4.85	1.41	0.23	55.17	5.85
Low level background radiation	2.14	0.19	3.47	0.37	102.62	26.54	1.41	0.30	51.01	4.77
F value	1871.04		200.702		61.645		60.288		194.418	
P value	< 0.001		< 0.001		< 0.001		< 0.001		< 0.001	

Discussion

The cortical atrophy and cerebellar/brain stem dominance result in obliteration in hemispheric difference in sexual behaviour. The right hemisphere is creative and male in outlook while left hemisphere is practical and female in outlook. The primitive parts of the brain take over the function of regulating sexual behaviour. The cerebellum plays an

important role and this results in impulsive sexual traits. The difference between male and female sexual behaviours induced by cerebral cortical function is lost. The archaeal cholesterol catabolism results in depletion of sex steroids and deficiency of testosterone and estrogens. The archaeal induced conversion of ovarian and testicular cells into stem cells results in loss of function and decreased secretion of male and female hormones. Behaviour becomes unisexual. This becomes non-inhibitory and impulsive in nature. It transcends all taboos and has got a reflection in culture and society affecting all manners of social interaction. The predominant form of brain perception is extrasensory or quantal. The primitive human impulses become unleashed and this results in a flood of primitive behavioural traits with violent, aggressive and obscene traits in society. The increased incidence of violent sexual behavioural traits is related to the dominance of the primitive areas of the brain- the cerebellum and brain stem. The dress code of the society also changes and results in metrosexual and unisexual garments. The mode of grooming of male and female changes and both becomes equal and the same. This creates the metrosexual world.[1-17]

The dominance of the primitive areas of the brain results in fear flight and fight response resulting in an epidemic of selfishness in society. Individualism takes over and there is no commitment to the society as such. Sexual behaviours were programmed for the benefit of the society so that the human population is replaced. The cortical atrophy and cerebellar dominance results in selfish sexual behavioural traits producing sexual behaviour for individual pleasure and gratification in animalistic sense. This results in loss of family values and declining population as is seen in European countries. The cerebral cortical atrophy and dominance of cerebellum result in selfishness and individuality contributing to an anarchic society. The cerebral cortical atrophy results from perception of low level of EMF resulting from increased archaeal magnetite as well as EMF pollution resulting from internet exposure. Society becomes globalised and anarchic fuelled by the internet. This results in an acortical acephalic society with dominant primitive cerebellar function. There is no compassion, love, feeling of altruism or goodness. This is replaced by selfishness and individuality. The internet and social media becomes the common market place for interactions. The feeling of human touch and love is lost. Society becomes increasingly robotical and autistic. The realm of the senses takes over the kingdom of God. Everything becomes subsumed and sacrificed in the altar of selfishness, greed and pleasure. This produces an anarchic, unisexual and society of primitive impulses. The cortical atrophy and cerebellar dominance results in a play of primitive impulses resulting in violence and aggression. This results from a culture of

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selfishness. This produces terrorism and acts of war which are a form of transcendence. This also produces criminal behaviour where individuality and selfishness dominates. Society becomes dominated by ritualized and in some cases obscene behaviour.[1-17]

The cortical atrophy and dominance of cerebellum result in loss of cortical neuronal function and increased extrasensory perception mediated by archaeal magnetite. This results in dominant spiritual behaviours where one comes into contact with the eternal and archetypes. This results in a literature of transcendence. This produces what is called as magic realism of writers like Gabriel Marquez. The literature explores the evil depths of the human soul. This results in a dominance of sexual, violent, obscene and evil in literature as seen in post modern literature. This has also a reflection in art of painting, dance and music. Painting, dance and music become surreal and the rationality of the cortex regulating it is lost. This results in psychedelic and rock music as well as the surrealistic abstract art of Picasso. Dance forms also take violent, obscene, chaotic forms. This is art of the surrealistic acephalic irrational world in the realm of senses driven by obscenity. This type of art and literature correlates with the androgynous creativity.[1-17]

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The prefrontal cortical atrophy and cerebellar dominance is due to archaeal growth which results in stem cell conversion. The stem cell syndrome can produce a proliferation of systemic diseases. The neuronal stem cell conversion results in loss of neuronal function and dominant extrasensory archaeal magnetite mediated perception. This produces an epidemic of schizophrenia and autism. The stem cells have the Warburg phenotype with mitochondrial dysfunction and glycolytic energetics. This results in metabolic syndrome x. The stem cells can proliferate resulting in cancer syndromes. The lymphocytic stem cells proliferate producing an autoimmune disease. The neuronal stem cells transformation and loss of function can lead to degenerations. Thus the systemic somatic and neuropsychiatric diseases correlate with alternate sexual traits and stem cell transformation.[1-17]

The archaeal symbiosis mediated brain changes producing cerebellar dominance and cortical atrophy results in an individualistic selfish society. This is the kernel of capitalistic growth and models which tend to fail because of the individualistic will to power and dominate at all cost. The society becomes more dictatorial and fascism and nazistic behaviour takes over. There is individualistic trait of selfishness and a primitive impulse to follow the leader. The civil society which is just, good, equal, socialistic, democratic and fair generated by cortical impulses becomes dead. The society which is governed by cerebellar function and

unisexual tendencies becomes more matriarchal as men and women tend to have similar traits. Women also tend to be as aggressive if not more than men. The cortical hemispheric control over social and individual behaviour is lost. It becomes the primitive world of selfishness and individuality uninhibited by sexual mores. [1-17]

The archaeal overgrowth and digoxin synthesis can modulate retroviral growth. Digoxin can modulate RNA editing and retroviral replication. Digoxin can also produce intracellular magnesium deficiency resulting in reverse transcriptase inhibition. Thus the archaeal induced stem cell syndrome is retroviral resistant. This results in changes in the human genome as such. HERV sequences in the human genome functions as jumping genes producing dynamicity and flexibility of the human genome. This is required for the changes in cortical synaptic connectivity, HLA gene flexibility and developmental changes. The archaeal induced stem cell syndrome produces a rigid adynamic genome not able to cope with the complexities of the cortical connectivity, HLA gene rearrangements for immune response and gene changes for complex development. This neanderthalisation of the human body due to archaeal symbiosis can spell the death of the human species. The new human species which may be transient consequent to archaeal symbiosis produced by extremophilic climatic changes consequent to global warming can be called the human homo neoneanderthalis. It is androgynous, creative, psychedelic, artistic, spiritual, aggressive, violent, selfish, impulsive, anarchic, chaotic and individualistic.[1-17]

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CHAPTER 32

THE ARCHAEAL INDUCED ALTERNATE SEXUAL, SPIRITUAL, SURREALISTIC EVIL BRAIN - TANTRA, GANDHARVAS AND PANPSYCHISM – THE NEUROBIOLOGY OF SEX, LOVE AND TRANSCENDENCE

Introduction

Climate change and archaeal symbiosis as well as covid 19 infection of the brain can produce cerebral cortical atrophy and cerebellar dominance. This leads to neanderthalisation of the brain. The global warming produces increased acidity and atmospheric carbon dioxide resulting in extremophilic archaeal symbiosis in humans. The archaeal symbiosis results in neanderthalisation of humans. The archaea induced uncoupling proteins producing the primitive Warburg phenotype and stem cell metabolonomics. The archaeal metabolites of cholesterol digoxin, bile acids and short chain fatty acids induce uncoupling proteins. The lysosomal enzymes a marker of stem cell conversion are markedly increased along with genesis of the archaeal phenotype in metabolic syndrome x, degenerations, autoimmune diseases, cancer, schizophrenia and autism. In all these systemic diseases there is somatic cell transformation to stem cell and lose of function. The neurons become immature and lose their dendritic spines and connectivity. This results in loss of neuronal function and reversion to archaeal magnetite mediated extrasensory perception of low level of EMF. Exposure to low level of EMF results in brain changes. This results in prefrontal cortex atrophy. The primitive brain areas of cerebellum and brain stem become hypertrophic. The somatic and neuronal cell proliferates and there is neanderthalisation of the brain and body.[1-17]

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The idea of goodness is based on reason and logic. Reason judgment and logic is a function of the cerebral cortex especially the prefrontal lobe. Prefrontal lobe function needs dynamic synaptic connectivity which is produced by jumping genes mediated by human endogenous retroviral sequences. Goodness is correlated with heaven. The idea of evil is based on the unconscious and the impulsive behaviour related to sub-cortical areas especially the cerebellum. The cerebellum is the site of impulsive behaviour and the unconscious behaviour. The cerebellar and sub-cortical brain connections are predominantly archaeal colony networks. The idea of evil is related to hell. The idea of conscious judgmental acts and unconscious impulsive acts, heaven and hell, goodness and evil are juxtapositions. The global warming and exposure to low level of EMF leads to actinidic archaeal growth in the brain and increased archaeal magnetite mediated perception of low level of EMF. This leads to

prefrontal cortex atrophy and cerebellar dominance. The conscious becomes minimal and unconscious brain takes over. The study assessed archaeal growth as assessed by cytochrome F420 activity and stem cell type metabolonomics in systemic diseases, neuropsychiatric disorders and normal individuals with differing psychological profile- prisoners, creative individuals and common sense modulated business men.[1-17]

Panpsychism and connection to the protoconsciousness field forms the basis of tantric states. The tantric states associated with sexuality help to connect with the protoconsciousness field and form a major part of Hindu philosophy and culture. The sexual transcendence as a part of worship is seen in Hindu practices. Sexuality was used as a instrument for cortical suppression and cerebellar dominance creating a surrealistic transcendental state. The sexual transcendence can be heterosexual or alternate. The worship by sexual transcendence is described in the biography of Ramakrishna Paramhamsa. In modern times it can be seen in the philosophy of Acharya Rajnesh. The early literature describes Gandharvas and Apsaras with musical abilities and credited with being the guardian of the Soma. The Yakshas with their magical qualities of demonic possession were associated with the Gandharvas. This pointed to a strong content of sexual transcendence in Hindu worship.

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Materials and Methods

The blood samples were drawn from four groups of psychological different population with the following characters- alternate sexuality, spiritually inclined, criminal prisoners, creative artists and business men. There were 15 members in each group. The blood samples were also drawn from 15 cases each of schizophrenia and autism. The estimations done in the blood samples collected include cytochrome F420 activity. Blood lactate, pyruvate, hexokinase, cytochrome C, cytochrome F420, digoxin, bile acids, butyrate and propionate were estimated.

Results

The results showed that the spiritual, artistic creative individuals and criminal prisoners had increased cytochrome F420 activity and RBC digoxin levels. The results showed that the businessmen had decreased cytochrome F420 activity and RBC digoxin levels. The blood samples of Alzheimer's disease, autoimmune disease- SLE, cancer- brain glioma, schizophrenia and autism had increased blood lactate and pyruvate, increased RBC

hexokinase, increased serum cytochrome C and serum cytochrome F420, increased serum digoxin, bile acids, butyrate and propionate. The disease state had increased cytochrome F420 activity. The serum cytochrome C levels in the blood were increased. This suggested mitochondrial dysfunction. There was an increased in glycolysis as suggested by increased RBC hexokinase activity and lactic acidosis. Owing to the mitochondrial dysfunction and pyruvate dehydrogenase inhibition there was pyruvate accumulation. The pyruvate was converted to lactate by the Cori cycle and also to glutamate and ammonia. This metabolism is suggestive of the Warburg phenotype and stem cell conversion. The stem cells depend on Warburg anaerobic glycolysis for energetics and have a mitochondrial dysfunction. The lysosomal enzyme beta galactosidase activity was increased in the disease group and in creative artists and criminals suggesting stem cell conversion. This suggests that artistic creative, criminal prisoners as well as spiritual individuals tend to have stem cell metabolonomics and stem cell conversion.

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Table 1

Group	Cytochrome F 420		Serum Cyto C (ng/ml)		Lactate (mg/dl)		Pyruvate (umol/l)	
	Mean	± SD	Mean	± SD	Mean	± SD	Mean	± SD
Normal population	1.00	0.00	2.79	0.28	7.38	0.31	40.51	1.42
Spiritual	4.00	0.00	12.39	1.23	25.99	8.10	100.51	12.32
Acquisitive capitalist	0.00	0.00	1.21	0.38	2.75	0.41	23.79	2.51
Artistic	4.00	0.00	12.84	0.74	23.64	1.43	96.19	12.15
Criminality	4.00	0.00	12.72	0.92	25.35	5.52	103.32	13.04
Schizo	4.00	0.00	11.58	0.90	22.07	1.06	96.54	9.96
Autism	4.00	0.00	12.48	0.79	21.95	0.65	92.71	8.43
Alternate Sexuality	4.00	0.00	12.79	1.15	23.69	2.19	91.81	4.12
Low level background radiation	4.00	0.00	12.26	1.00	23.31	1.46	103.28	11.47
F value	0.001		445.772		162.945		154.701	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 2

Group	RBC Hexokinase (ug glu phos/ hr/ mgpro)		ACOA (mg/dl)		Glutamate (mg/dl)		Se. Ammonia (ug/dl)	
	Mean	± SD	Mean	± SD	Mean	± SD	Mean	± SD
Normal population	1.66	0.45	8.75	0.38	0.65	0.03	50.60	1.42
Spiritual	5.46	2.83	2.51	0.36	3.19	0.32	93.43	4.85
Acquisitive capitalist	0.68	0.23	16.49	0.89	0.16	0.02	23.92	3.38
Artistic	10.12	1.75	2.51	0.42	3.11	0.36	92.40	4.34
Criminality	9.44	3.40	2.19	0.19	3.27	0.39	95.37	5.76
Schizo	7.69	3.40	2.51	0.57	3.41	0.41	94.72	3.28
Autism	6.95	2.02	2.42	0.41	3.30	0.32	94.01	5.00
Alternate Sexuality	8.68	2.60	2.01	0.08	3.30	0.48	98.81	15.65
Low level background radiation	7.58	3.09	2.14	0.19	3.47	0.37	102.62	26.54
F value	18.187		1871.04		200.702		61.645	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 3

Group	RBC digoxin (ng/ml RBC Susp)		Beta galactosidase activity in serum (IU/ml)	
	Mean	± SD	Mean	± SD
Normal population	0.58	0.07	17.75	0.72
Spiritual	1.41	0.23	55.17	5.85
Acquisitive capitalist	0.18	0.05	8.70	0.90
Artistic	1.40	0.32	46.37	4.87
Criminality	1.51	0.29	47.47	4.34
Schizo	1.38	0.26	51.17	3.65
Autism	1.19	0.24	52.87	7.04
Alternate Sexuality	1.34	0.25	47.28	3.55
Low level background radiation	1.41	0.30	51.01	4.77
F value	60.288		194.418	
P value	< 0.001		< 0.001	

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Discussion

The systemic diseases and neuropsychiatric disorders tend to have a predominant anaerobic glycolytic metabolism and mitochondrial oxidative phosphorylation is suppressed. The metabolism is similar to the metabolism of the stem cell. The pyruvate and lactate levels are increased with a decrease in acetyl coenzyme A and ATP. The glycolytic pathway and hexokinase is increased. This indicates a Warburg phenotype depending upon anaerobic glycolysis for energetics. The lysosomal enzymes beta galactosidase a stem cell marker is increased. The cytochrome F420 is also increased as well as the archaeal catabolite digoxin

which suppresses sodium potassium ATPase. Bacteria and archaea are supposed to induce stem cell transformation. The induction of uncoupling proteins leads to stem cell transformation. The uncoupling proteins inhibit oxidative phosphorylation and the substrates are directed to anaerobic glycolysis. Digoxin by inhibiting sodium potassium ATPase can increase intracellular calcium, induce mitochondrial permeability transient pore function and uncouple oxidative phosphorylation. The side chain of cholesterol is catabolised by archaea to butyric acid and propionic acid which uncouple oxidative phosphorylation. The archaeal side chain hydroxylase convert cholesterol to bile acids which uncouple oxidative phosphorylation. Thus archaeal symbiosis in the cell results in cholesterol catabolism and the catabolites digoxin, bile acids and short chain fatty acids uncouple oxidative phosphorylation, inhibit mitochondrial function and promote anaerobic glycolysis. The conversion of somatic cells to stem cell helps in archaeal persistence within the cell and symbiosis. Mycobacterium leprae infection can convert Schwann cells to stem cells. Archaeal infection produces somatic cell conversion to stem cells for archaeal persistence. The conversion to stem cell results in proliferation and loss of function resulting in systemic disease and neuropsychiatric disorders. Stem cell conversion of neurons and loss of function results in development of a new psychological phenotype.[1-17]

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The systemic and neuronal cell in metabolic syndrome x, cancer, autoimmune disease, degenerations, schizophrenia and autism behaves like the stem cell. It is plausible to hypothesize a somatic cell conversion to stem cell in these disorders. The differentiated cells by archaeal induction get converted to stem cell. The stem cell is an immature cell with loss of function. The neurons lose their dendritic spines and loss of connectivity. The brain function becomes primitive. The neurons are adendritic and disconnected. This results in complex brain structures like the modern cerebral cortex and prefrontal cortex atrophy. The primitive parts of the brain the brain stem and cerebellum hypertrophies. This results in neanderthalisation of the brain with a prominent occipital bun and atrophied prefrontal cortex. The prefrontal cortex atrophy results in loss of logic, judgment, reasoning and executive functions. The hypertrophy of the cerebellum and brain stem results in dominance of impulsive behaviour. The difference between reality and dreams is lost. The brain is ruled by the senses and impulses. The brain becomes dysfunctional with more of violent, aggressive and cannibalistic behaviour. The art becomes more abstract and related to the unconscious. The world of the unconscious brain with its archetypes takes over. There is loss of the world of reasoning, logic and judgment. It is a world of impulsiveness in which

primitive tendencies with relation to the unconscious becomes dominant. This produces more of ritualized behaviour, violent and aggressive tendencies, terrorism, war, sexual obscenities and alternate sexuality. It is a world of the senses. It is also intensely evil as well as spiritual. The inhibition of the conscious due to loss of cortical functions and the dominance of the unconscious leads to mystical experience. There is a overflowing of spirituality. The paradoxical side of this behaviour also dominates. The violence, aggression, obsessive sexuality, magic realism in literature, abstract painting, rock music and dance and modern poetry as well as literature produces transcendence of a different kind. This results in surrealism and syntheism. The loss of function of the neurons results in schizophrenia, autism and degenerations. The increased archaeal induced proliferation of stem cells results in a big sized brain and trunk as in Neanderthals. This archaeal symbiosis produces neanderthalisation and a stem cell syndrome. This produces reverse aging which can be called as an epidemic Benjamin Button syndrome. The lymphocytic stem cells have uncontrolled proliferation and results in autoimmune diseases. The stem cell proliferation results in oncogenesis. The stem cell metabolonomics with inhibited mitochondrial function and anaerobic glycolysis results in metabolic syndrome x. Stem cell markers are increased in schizophrenia and autism and the neurons lack dendritic spines. Stem cell markers are also increased in autoimmune disease. The diabetic metabolism is akin to stem cell metabolism. The cancer cell behaves like the stem cell.[1-17]

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In the metaphysics of evil the unconscious dominates and the behaviour is impulsive dictated by primitive thoughts. The unconscious modulated by the cerebellum is responsible for automatic acts producing what is called as psychic automatism. The unconscious parallels what Jung described as the archetypes of the collective unconscious. The metaphysics of evil leads to a syntheistic brain with the dominance of the willpower. The primitive archetypes produce concepts of abstract painting, psychedelic music and dance and postmodern literature or magical realism. All these are modes of connecting with the unconscious. The unconscious produces primitive selfish tendencies leading to individualism and capitalism. The unconscious helps to transcend taboos and creates the surrealistic world. The collective unconscious also produces a sense of spirituality and oneness. It is an impulsive brain with fixations and primitive obsessions. There is cerebellar psychic automatism. This leads to ritualized behaviours. The dominance of the collective unconscious results in ritualized behaviours characteristic of religious worship. The collective unconscious also leads to the creation of obscene art and literature as well as violence which is a form of transcendence.

Coprolalic religious ritual ceremonies had been described in some parts of the world. Terrorism and acts of violence are also a type of transcendence. The same phenomena occur in ritual sacrifices in religion, the violence of war and the acquisitiveness of capitalism. The primitive unconscious leads to the will to power. This produces greedy capitalism, dictatorship and fascism. The will to power results in worship of the powerful. It is an individualistic, anarchic, selfish world. The cerebellar world is the primitive world of archetypes in the collective unconscious. The abstract paintings have links with the collective unconscious. The rock music or modern music contains rhythmic primitive chaotic sounds coming out the collective unconscious. The primitive collective unconscious links up post modern literature or magic realism with violence, love, hate, evil, obscenities and death. Thus literature, music, dance and painting helps to overcome reality and rationality producing transcendence. The unconscious brain is formed of an archaeal colony network and is adynamic and inflexible. There is an epidemic of autism and schizophrenia. The loss of function of neurons leads to increased extrasensory perception via archaeal magnetite. This can lead to the lack of development of speech and ritualized behaviours of autism. This also produces the thought disorder, hallucinations and delusions of schizophrenia. It looks like an epidemic cerebellar cognitive, affective disorder.[1-17]

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The goodness is related to conscious brain localized in the cortical areas. The cortical areas mediate moralistic, functionally atheistic, civil society behaviour. The civil society depends upon common good. The cortical world is a world of morality, rationality, altruism, civility and decencies. This needs inhibitory power of the cerebral cortex. Such a society is non-capitalistic and works for the common good. It tends to be non creative. The primitive collective spirituality and oneness is lost. It is replaced by goodness based on judgment, reasoning and morality. It is a moralistic world where taboos are banned. This requires synaptic plasticity and is modulated by HERV mediated jumping genes. This needs a dynamic brain and the human cerebral cortex evolved due to the jumping genes generated from human endogenous retroviral sequences. The cerebellar world comparatively is impulsive, criminal, violent, terroristic with love of war, selfish, acquisitive, spiritual, autistic, obsessive, schizophrenic, obscene, evil, ritualized, artistic, illogical and cruel. It is mediated by the archaeal colony network. The stem cell transformation of somatic cells results in HERV resistance and retroviral resistance. Archaeal digoxin inhibits reverse transcriptase by producing magnesium deficiency as well as modulates RNA viral editing inhibiting retroviral replication. This produces lack of HERV jumping genes in this stem cell

brain and lack of synaptic plasticity and dynamicity. The stem cell syndrome is characterized by retroviral resistance. Archaeal symbiosis inhibits retroviral infection. The homo sapiens with less of archaeal symbiosis becomes susceptible to retroviral and other RNA viral infection and gets wiped out. The homo neoneanderthalis are resistance to retroviral and other RNA viral infection and persists. The homo neoneanderthalis dominates all over the world. But the homo neoneanderthalis are prone to civilizational disease like malignancy, autoimmune disease, neurodegeneration, metabolic syndrome and neuropsychiatric disorders. The homo neoneanderthalis becomes extinct after a period of time.[1-17]

The archaeal induced stem cell syndrome or neanderthalisation is due to global warming and acid rains resulting in increased extremophilic archaeal symbiosis. The archaea catabolises cholesterol and generates digoxin, bile acids and short chain fatty acids which produce induction of uncoupling proteins. This produces mitochondrial dysfunction and the cell obtains its energetics from glycolysis. Archaeal digoxin produces membrane sodium potassium ATPase inhibition which also contributes to stem cell conversion. The whole body somatic and brain undergoes stem cell conversion and becomes a stem cell phenotype with Warburg metabolic phenotype. The generalized acidity due to global warming and increased atmospheric carbon dioxide also facilitates archaeal growth and stem cell transformation. The acidic pH due to the Warburg phenotype and increased atmospheric carbon dioxide also results in stem cell conversion. The somatic differentiated cell getting converted to stem cells lose their function and become dysfunctional metabolically, neurologically, immunologically and endocrine-wise. This produces the epidemic Benjamin button syndrome and the human species becomes neanderthalic and a collection of immature stem cells. This results in epidemic metabolic syndrome x, degenerations, cancer, autoimmune disease, autism and schizophrenia. The brain becomes converted to a collection of stem cells which are dedifferentiated with loss of function and is like an archaeal colony network. The perception becomes extrasensory and quantal depending on archaeal magnetite. The increased amount of low level EMF perception results in prefrontal cortical atrophy. It also produces cerebellar hypertrophy and the cerebellar cognitive function takes over. This also results in societal changes where evil and spirituality dominates. The world of the logical civil society of the Christian world comes to end and paganistic behaviour takes over. The society becomes selfish and dominated by impulsive consumerism and acquisitive capitalism. The world becomes cruel, violent, aggressive and terroristic. Art becomes chaotic and abstract in line with the senses and unconscious. There is a predominance of obsessive and alternate sexuality. Criminal behaviour and cruelty dominates. The world is

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impulsive psychopathic, creative autistic with features of idiotic savants, ritualistic, chaotic, sexual, ugly, anarchic, violent, evil, paganistic, obscene, atheistically spiritual as well as selfish. It mimics the Niezteschean world, the deconstructed world of Derrida, the surrealistic world of Bataille and the nihilistic, anarchic world. There is the death of the individual and life becomes a social value. It is an acephalistic world of Freud and Jung. The art is abstract, the literature is magically real, the music is rock and the dance chaotic. All these result from the extinction of rationality and the dominance of primitive impulsive behaviour. A civilization of the senses dominated by the unconscious takes over. The will to goodness given by the cerebral cortex is lost. This results in development of a new homo neoneanderthal human species with its dominant evilly spiritual cerebellar brain. It produces a surrealistic evil brain with realm of the senses, archetypes, evil spirituality and impulsiveness taking over. It is a kingdom of the collective unconscious and selfish capitalism with the will to power and the realm of the senses.[1-17]

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CHAPTER 33
THE NEONEANDERTHALIC SURREALISTIC, SYNTHEISTIC, ASEXUAL BRAIN

Introduction

Panpsychism and connection to the protoconsciousness field forms the basis of tantric states. The tantric states associated with sexuality help to connect with the protoconsciousness field and form a major part of Hindu philosophy and culture. The sexual transcendence as a part of worship is seen in Hindu practices. Sexuality was used as a instrument for cortical suppression and cerebellar dominance creating a surrealistic transcendental state. The sexual transcendence can be heterosexual or alternate. The worship by sexual transcendence is described in the biography of Ramakrishna Paramhamsa. In modern times it can be seen in the philosophy of Acharya Rajnesh. The early literature describes Gandharvas and Apsaras with musical abilities and credited with being the guardian of the Soma. The Yakshas with their magical qualities of demonic possession were associated with the Gandharvas. This pointed to a strong content of sexual transcendence in Hindu worship.

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Climate change and archaeal symbiosis as well as covid 19 infection of the brain can produce cerebral cortical atrophy and cerebellar dominance. This leads to neanderthalisation of the brain. Previous studies from this laboratory have demonstrated increased symbiotic archaeal growth consequent to global warming. Previous studies have shown low level of EMF pollution leading to increased archaeal growth. The netocrats and netizens are exposed to continuous low level of EMF pollution. The archaea contains magnetite and can catabolize cholesterol to generate porphyrins. Digoxin can produce sodium potassium ATPase inhibition and a pumped phonon system acting through dipolar magnetite and porphyrins to generate a Frohlich model of Bose-Einstein condensate. This can produce quantal perception. The archaeal magnetite and porphyrins can produce increased perception of low level of EMF leading on to prefrontal cortex atrophy and cerebellar hypertrophy. This can lead on to neanderthalisation of the brain. This leads on to dominance of cerebellar cognitive function as has been reported earlier from this laboratory. The prefrontal cortex atrophy can lead on to extinction of rationalization and reason producing a state of transcendence. This is the basis of surrealism. The brain quantal fields can modulate the low level EMF fields in the internet and the interaction can alter internet function and the quantal fields of other brain operating the internet. The interactive quantal fields of the human brain and the low level EMF quantal

fields of the internet form one single whole functioning as a universal collective unconscious, the basis of syntheism. Syntheism is a philosophical idea where the humanity creates God as opposed to the monotheistic religious ideal of God creating humanity. The paper explores the link between neanderthalisation, archaeal growth and surrealism/syntheism.[1-16] The results are discussed in this paper.

Materials and Methods

Fifteen netizens/netocrats were selected for the study. Each netizen had an age and sex matched control. Blood cytochrome F420 activity was assessed by spectrophotometric measurement.

Results

Cytochrome F420 was detected in the entire case group studied showing endosymbiotic archaeal overgrowth.

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Table 1. Cytochrome F420 in internet exposure

	Cyt F420 activity
Normal	6%
Netizens	65%

Discussion

The widespread use of the internet is ubiquitous. The internet-human mind interaction has been described in a previous report from this laboratory. The low level of EMF produced by the internet can modulate brain function. Low level of EMF can induce porphyrin synthesis by actinidic archaeal symbionts in the brain. Porphyrins are dipolar molecules and in the setting of archaeal digoxin induced sodium potassium ATPase inhibition can generate a pumped phonon system and Frohlich model of Bose-Einstein condensates. These porphyrin mediated Bose-Einstein condensate can mediate quantal perception. The brain quantal fields can modulate the low level EMF fields in the internet and the interaction can alter internet function and the quantal fields of other brain operating the internet. The interactive quantal fields of the human brain and the low level EMF quantal fields of the internet form one single whole functioning as a universal collective unconscious. There are 7 billion users of the internet. The collective unconscious created by interaction of brain quantal fields with internet low EMF fields functions as a virtual matrix on which the world is structured. There are thought controlled robotic computers which can perform human functions. The human

thought creates a communicative order which alters the brain EEG and can issue a computer modulated order of the brain's thought process.[1-16]

Syntheism is a philosophical idea where the humanity creates God as opposed to the monotheistic religious ideal of God creating humanity. The quantal fields of multiple brains interacting with each other and internet roughly fit in with the idea of God or the Holy Spirit. This fits in with Buddhist philosophy. The Buddhist philosophy is atheistic and describes Samsaras or states of mind occurring in quick succession with the idea of karma modulating the next state of the human mind in symbiotic communication with other minds. This roughly is the Buddhist idea of the controlling force of the universe. The quantal world of the human brain in communication with other brains and in interaction with the low level EMF quantal fields of the internet fits in with this proposition of Samsaras. It creates an idea of universal globalised world of oneness which can be described as equivalent to God. The internet can be considered as great equalizer and creates a oneness of the human quantal brain all over the earth and other possible functioning brains in the universe. The quantal world becomes the particulate world by the act of observation. The human quantal brains in communication with each other and the low level EMF quantal fields of the internet creates the particulate observable world.[1-16]

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The widespread use of the internet produces low level of EMF exposure to the human brain. This produces prefrontal cortex atrophy and cerebellar dominance. The prefrontal cortex is the site of the logic, reasoning and commonsense. The atrophy of the prefrontal cortex leads to cerebellar dominance of brain cognitive function. It becomes an impulsive world guided by the senses. The world of the senses comes into existence. The cerebellar dominance leads to an ataxic syndrome producing ataxia of speech and motor function. Ataxia of speech leads to evolution of music of the rock type which dominates the modern world. The ataxia of motor function leads to rhythmic dance as the guiding force of life. The ataxia of motor function also leads to abstract painting. The world gets dominated by rock/pop dance, music and art. The exposure to low level of EMF from the internet leads to increased dipolar porphyrin synthesis and quantal perception. The increased quantal perception leads to more increased interaction with the low level quantal EMF fields of the internet making the internet world as the real world and outside world as virtual. The increased quantal perception of the brain leads to a sense of spirituality and oneness of the world. The increased quantal perception leads to a communication between the brain quantal fields and the quantal fields of the environment leading to the concept of eco-spirituality. The consuming world comes to an end and a world of sharing begins. The increased quantal

perception also leads to a feeling of oneness in the population producing an idea of the socialistic idealistic society and demise of the capitalistic society. The increased quantal perception leads to gender equality and the dominance of unisexuality in society. This is exemplified by the festivals of the burning man and the burning nest.[1-16]

The netocratic state can also produce changes in brain function. The increased exposure to low level of EMF produces prefrontal cortex atrophy and cerebellar dominance. This leads on to neanderthalisation of the brain. The increased exposure to low level of EMF produces increased archaeal growth, cholesterol catabolism and digoxin synthesis. Digoxin can modulate brain and body function on exposure to low level of EMF. Low level of EMF exposure also produces increased porphyrin synthesis which can lead on to increased digoxin mediated dipolar porphyrin modulated Frohlich model of pumped phonon system.[1-16]

The online world is the real world for netizens and the real world is a reflection of the online world. Value is a social mode created in the network online. Netocracy creates a new elite. It creates a new religion of atheistic mysticism. The netocratic world affects politics producing a movement for equality. The recent social media generated revolutions include the Arab spring and jasmine revolution.[1-16]

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Netocratic state can produce a new social order. There is a sense of equality due to quantal perception producing ideas of socialism, communism, anarchy and gender equality. The quantal perception mediated feeling of oneness will spell the death of the capitalistic state. There is also feeling of gender equality, asexuality and alternate sexuality. The quantal perception mediated sense of oneness leads on to a more democratic state. The quantal perception also produces universal oneness and spirituality. Netocratic state produces a participatory culture. It produces the global empire and a global virtual society where the mind is constituted by the online net and body becomes a machine. This produces an anti-Cartesian view of the world. The old political conflicts and ideologies get replaced by netocratic state fuelled by a communication revolution. The internet functions as a sensory extension of the human brain.[1-16]

The increased low level quantal EMF fields of the internet produces increased growth of extremophilic actinidic archaea in the brain and human body. The symbiotic archaea synthesizes more porphyrins. The archaeal magnetite and porphyrins can mediate increased quantal perception and interaction with the low level EMF fields of the internet. Thus the wide spread use of the internet leads to a society with increased quantal perception and

interaction with the internet. The low level quantal EMF fields of the internet affects the brain producing neanderthalisation of the brain. The prefrontal cortex becomes small and the cerebellum hypertrophies producing an occipital bun. The brain becomes more creative, autistic, impulsive, addictive, attention deficit and schizophrenic. Such brains produce behaviour which is chaotic, anarchic and non-hierarchal. There is globalisation of the world. Religions, nation-states, individuality and family cease to have much relevance. This becomes the globalised quantal world of oneness and equality- the world of samsaras.[1-16]

The netocratic state can produce human pathology. Exposure to low level of EMF pollution increases endosymbiotic archaeal growth and digoxin synthesis from cholesterol. Digoxin produces membrane sodium potassium ATPase inhibition and low level of EMF exposure can lead to increased porphyrin synthesis. Increased intracellular calcium and porphyrins can produce cell death/degeneration, immune activation/autoimmune disease, mitochondrial dysfunction/metabolic syndrome x and neuropsychiatric disorders like autism and schizophrenia. It leads to an epidemic of civilizational disease.[1-16]

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The cholesterol catabolism leads to phenolization of the cholesterol ring producing increased synthesis of monoamine neurotransmitters dopamine and serotonin. This leads to schizophrenia, autism and ADHD. This also produces la tourette syndrome with coprolalia, OCD, vocal and motor tics. The synchronization of motor and vocal tics leads on to the evolution of language. The internet language used by netizens can be compared to a synchronized motor and vocal tic as it is short and agrammatical. Thus the netocratic state results in the generation of new human species- Neanderthal hybrids.[1-16]

The internet revolution and netocratic state leads on to the death of the individual and the generation of a social individual. This produces as said before prefrontal cortex atrophy and cerebellar dominance. This leads on to the annihilation of the rational individual. The world of logic, reason, understanding and order comes to an end. The increased synthesis of dopamine and an epidemic la tourette syndrome leads to ritualisation of behaviour, obsessive behaviour, uniformity and creativity. The world of quantal perception leads on to the sacredness of social existence. Collective ritualized behaviour becomes the norm. The world enters the realm of senses. The world of quantal perception leads to nihilistic state, nothingness and negativity. This contributes to surrealistic world Breton and Bataille and the deconstructed world of Derrida. This produces what can be called as the surrealistic brain. The world is chaotic, anarchic, ugly and barbarous. Terrorism and criminality raises its ugly

head producing the ugly revolution as it helps to transcend reality. The unconscious experience dominates and the conscious experience is shut out. There is no contradiction between dream and reality. There is a rejection of reason and a return to the world of archetypes. The political surrealistic world is Trotskyist, anarchic and communist. The artistic world is represented by the cubist paintings of Picasso and Dali and the world of modern art. Abstract painting, poetry, abstract dance becomes the norm. There is gender equality, feminism and rumblings of alternate sexuality. The atrophy of the prefrontal cortex and cerebellar dominance leads on to a state of psychic automatism and the dominance of unconscious experience. The epidemic la tourette syndrome leads to ritualism, obsession, criminality, cruelty and terrorism. The human beings enter the world of archetypes.[1-16]

The global warming leads to increased archaeal growth. The archaea can catabolize the cholesterol ring using ring oxidase to generate porphyrins. The archaea also contains magnetite. In the setting of digoxin induced membrane sodium potassium ATPase inhibition the dipolar magnetite and porphyrins can produce a pumped phonon system mediated Frohlich model of Bose-Einstein condensate. This can increase the brain quantal perception of low level EMF which again leads to increased archaeal growth. The increased quantal perception of low level of EMF leads to prefrontal cortex atrophy and cerebellar dominance. The archaeal cholesterol catabolism generates a phenolic ring from the cholesterol molecule synthesizing dopamine. This leads to an excess monoamine neurotransmitters. Thus there is an epidemic frontal lobe syndrome, cerebellar syndrome, la tourette disease, ADHD, schizophrenia and autism. Such a population of Neanderthal hybrids is creative. This produces ritualized, obsessive, coprolalic, attention deficit, obscene, grotesque and sexually anarchic behaviour. This helps to transcend reality as the frontal lobe concerned with rationalization, judgment and reasoning is dysfunctional. The same function of transcending reality by a dysfunctional frontal lobe also occurs in terrorism and criminal behaviour. The society becomes increasingly impulsive. The frontal lobe dysfunction and quantal perception helps to transcend reality and produces self realization and spirituality. The cerebellar dysfunction produces an ataxic syndrome with motor ataxia leading on to dance forms and abstract painting and ataxia of speech leads to rock music. The dopamine excess leads on to a motor and vocal tic which when synchronized produces language and evolution of literature. The coprolalia and obscene tics of la tourette disease leads to the ugliness and obscenities in modern literature, music, painting and dance. There is massive ritualized behaviour in society. Terrorism is a ritualized behaviour which helps to transcend reality due to a frontal lobe dysfunction and tourette disease. It can be considered as modern form of ritualized

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cannibalism. The realm of the senses dominates and there is rejection of reason and rationality. Dreams and reality merged together. It produces a psychedelic, art, literature and music. This produces what can be called as the acephalic state mimicking the acephalic society of Bataille, the originator of surrealistic philosophy. This leads on to the evolution of an acephalic new human species homo neoneanderthalis.[1-16]

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CHAPTER 34

A BIOLOGICAL BASIS FOR PHILOSOPHY, ECONOMICS, HISTORY, POLITICS, LITERATURE, SOCIAL MOVEMENTS, FEMINISM, ALTERNATE SEXUALITY AND GLOBALISATION

Introduction

Climate change and archaeal symbiosis as well as covid 19 infection of the brain can produce cerebral cortical atrophy and cerebellar dominance. This leads to neanderthalisation of the brain. The homo neanderthalis society was matrilineal and the homo sapien society was patrilineal. The homo neanderthalis as described in previous papers had increased actinidic archaeal growth and archaeal magnetite/porphyrin mediated quantal perception. This gave a feeling of collective unconscious and universal oneness. The homo sapiens had decreased actinidic archaeal growth and archaeal magnetite/porphyrin mediated quantal perception was minimal. This gave rise to individuality in homo sapiens as opposed to societal consciousness in homo neanderthalis. This is the biological basis of the features of homo neanderthalis society- primitive communism, socialism, democracy, female dominance, alternate sexuality, creativity in art and literature, spirituality, eco-consciousness, peaceful co-existence and a globalised world. The homo sapien society was selfish, primitive capitalistic, undemocratic, dictatorial, patriarchal, more masculine, less creative in art and literature, non-spiritual and material, heterosexual, exploitative, polluting, nationalistic and with an increased propensity to war. The phenomena of global warming leads to increased extremophilic actinidic archaeal growth and neanderthalisation of homo sapiens leading to the resurgence of neanderthalic features in society. The study evaluated actinidic archaeal growth in individuals with different personal characteristic features of socialistic, capitalistic, democratic, dictatorial, feminist, male chauvinist, artistic, creative literary characters, alternate sexuality, eco-conscious, nationalistic and globalised outlook.[1-16]

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Panpsychism and connection to the protoconsciousness field forms the basis of tantric states. The tantric states associated with sexuality help to connect with the protoconsciousness field and form a major part of Hindu philosophy and culture. The sexual transcendence as a part of worship is seen in Hindu practices. Sexuality was used as a instrument for cortical suppression and cerebellar dominance creating a surrealistic transcendental state. The sexual transcendence can be heterosexual or alternate. The worship by sexual transcendence is described in the biography of Ramakrishna Paramhamsa. In modern times it can be seen in the

philosophy of Acharya Rajnesh. The early literature describes Gandharvas and Apsaras with musical abilities and credited with being the guardian of the Soma. The Yakshas with their magical qualities of demonic possession were associated with the Gandharvas. This pointed to a strong content of sexual transcendence in Hindu worship.

Materials and Methods

The blood samples were drawn from two groups:- (1) the neanderthalic matrilineal population with outlook of altruism, primitive communism, socialism, democracy, female dominance, alternate sexuality, creativity in art and literature, spirituality, eco-consciousness, peaceful co-existence and a globalised world, and (2) the homo sapien patrilineal population with outlook of selfishness, primitive capitalistic, undemocratic, dictatorial, patriarchal, more masculine, less creative in art and literature, non-spiritual and material, heterosexual, exploitative, polluting, nationalistic and with an increased propensity to war. The estimations done in the blood samples collected include cytochrome F420 activity.

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Results

The results showed that the population with neanderthalic features and characteristics of altruism, primitive communism, socialism, democracy, female dominance, matrilineal, alternate sexuality, creativity in art and literature, spirituality, eco-consciousness, peaceful co-existence and a globalised world had increased cytochrome F420 activity. The results showed that the population with homo sapien features and characteristics of selfishness, primitive capitalistic, undemocratic, dictatorial, patriarchal, more masculine, less creative in art and literature, non-spiritual and material, heterosexual, exploitative, polluting, nationalistic and with an increased propensity to war had increased cytochrome F420 activity.

Table 1. Cytochrome F420 activity

		Neander-thalic	Homo sapien	F value	P value
CYT F420 % (Increase with Cerium)	Mean	23.46	4.48	306.749	< 0.001
	± SD	1.87	0.15		

Discussion

Neurobiology of Economics- Communism and Capitalism

The homo neanderthalis society and matriarchal societies had increased magnetite mediated quantal perception. There was a feeling of the collective unconscious and the

oneness of the world. The individual existence was meagre. The society existed as a universal whole. This gives rise to the feeling of altruism, compassion and love. This resulted in a society where societal consciousness was dominant. There was a feeling of sharing and giving. This was the basis of primitive socialism and communism. There were no hierarchal structures and the society functioned on a commune basis. Eastern societies had a more communal and social basis.

The homo sapiens and patriarchal societies had decreased magnetite mediated quantal perception. There was no feeling of collective unconscious and oneness of the world. There was a feeling of individuality and self. The society existed for the individual or family. There was no feeling of altruism, compassion and love. Individuality and dog-eat-dog mentality was dominant. There was no feeling of sharing or giving. The aim was to amass wealth for the individual and the family. There were hierarchal structures and society functioned on the basis of wealth and privilege. This evolved into capitalism. Western societies had a capitalistic basis.[1-16]

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Neurobiology of History and Politics

The homo neanderthalis had increased quantal perception. This gave rise to a feeling of oneness and equality. There were no hierarchal structures and there was a feeling of universal whole. This was exemplified in neanderthalic societies. Democracy evolved in the ancient Indian republics of the medieval age. The Harappan society was also democratic. There was tolerance of minorities.

The homo sapiens had decreased quantal perception. There was more of individuality, selfishness and the need to control others. This gave rise to dictatorship, kingship and non-democratic structures. The Nazi Germany is an extreme example of the homo sapien behaviour of selfishness and dictatorship. There was no tolerance of minorities as seen in the Nazi attitude to Jews who were neanderthalic in origin.[1-16]

Neurobiology of Social Organisation, Feminist Movement and Alternate Sexuality

The homo neanderthalis had increased growth of cholesterol catabolizing archaea which gave rise to sex hormone deficiency and male-female equality. The homo neanderthalis had a matriarchal society with features of alternate sexuality with asexual features. There was female dominance and female leadership. There was increased quantal perception in the neanderthalic brain leading on to an equal society without hierarchy. This

was a sort of primitive communism with sharing and compassion. There was no premium on individuality. There was less of consumerism and more of environmental consciousness. The environment had a soul. It was predominantly a give and take society. The society was equal and there was no apartheid. The invading homo sapiens, the Aryans imposed the caste society on the peace loving sudric Neanderthals. The Rig vedas contain vivid description of this war.

The homo sapiens had decreased growth of cholesterol catabolising archaea which gave rise to increase in sex hormones and male dominance. The homo sapien society was a patriarchal society with male dominance and male leadership. It was predominantly heterosexual. There was decreased quantal perception leading on to a society in which individuality had a premium. This gave rise to a capitalistic society and consumerism with very little environmental consciousness. The environment did not have a soul. It was predominantly a take-take society. The society was organized on a caste basis with homo neanderthalis as the underdog Sudra and the homo sapiens as the ruling class. It was a form of apartheid.[1-16]

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Neurobiology of Language, Literature and Art

The homo neanderthalis had increased archaeal infection. This gave rise to vocal tics and motor tics. The motor tics correlated with the vocal tics leading on to the evolution of language. Language evolved due to a possible epidemic la tourette syndrome. Later on literature evolved. The homo neanderthalis had increased quantal perception and extrasensory perception. This gave rise to the world of imagination and literature. Early literature evolved in Eastern neanderthalic societies.

The homo sapiens had less of archaeal infection and a less dominant tics syndrome. The evolution of language was less effective in homo sapiens. The homo sapiens had decreased quantal perception and extrasensory perception. The world of imagination and literature was less evolved in them.

The homo neanderthalis had prefrontal cortex atrophy and cerebellar dominance. This gave rise to appendicular and axial ataxia. This leads on to the evolution of abstract painting. Abstract painting was introduced by Picasso who belonged to the Basque-Celtic society which had a neanderthalic basis. The gait ataxia and appendicular ataxia gave rise to unsteadiness of hands and limbs which later on evolved into dance. The vocal tics lead on to

music and the ataxic speech gave rise to the cadence of music. The Eastern societies gave a lead to dance, painting and music.

The homo sapiens had prefrontal cortex dominance and cerebellar atrophy. There was no ataxia. Dance, music and painting were undeveloped in them. The Western societies tend to explore the field of music, dance and painting in less evolved way.[1-16]

Neurobiology of Religion, Society and Spirituality

The homo neanderthalis had increased quantal perception. There was a feeling of oneness of the world and the collective unconscious. This gave rise to the concept of Jungian archetypes. There was increased spirituality and a feeling of a universal soul. Eastern neanderthalic societies were more spiritual and full of universal Godliness.

The homo sapiens had decreased quantal perception. There was no feeling of oneness or the collective unconscious. There was no concept of the Jungian archetypes. There was a decreased spirituality and feeling of universal soul. Religion was more organized, hierarchal and a way of controlling society. It was religion without spirituality. This gave rise to wars on the basis of religion. The Semitic societies had their crusades and the modern war on terror. There was no equal war based on religion in the Eastern world.[1-16]

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Neurobiology of the Feminist Movement and Alternate Sexuality

The homo neanderthalis had increased growth of cholesterol catabolizing archaea which gave rise to sex hormone deficiency and male-female equality. The homo neanderthalis had a matriarchal society with features of alternate sexuality with asexual features. There was female dominance and female leadership. There was increased quantal perception in Neanderthals and a feeling of oneness of male and female.

The homo sapiens had decreased growth of cholesterol catabolizing archaea which gave rise to increase in sex hormones and male dominance. The homo sapien society was a patriarchal society with male dominance and male leadership. It was predominantly heterosexual. There was decreased quantal perception with male dominance and unequality.[1-16]

Neurobiology of the Environmental Movement

The homo neanderthalis had increased quantal perception and a feeling of oneness with the world. The plants, animals and the earth had a soul. The human being felt at oneness

with the world. This leads on to the concept of eco-spirituality. There was no consumerism or exploitation. The world existed along with environment.

The homo sapiens had no quantal perception. There was no feeling of oneness with the world. The plants, animals and earth had no soul. The human being was apart from the world. God gave the world to human being to exploit and enjoy. There was no concept of eco-spirituality. There was consumerism and exploitation of the environment. This leads on to global warming, pollution and destruction of the world.[1-16]

Neurobiology of Globalisation and the Internet Dominated World

The homo neanderthalis had increased quantal perception and felt that the world was one. There was a feeling of global consciousness. The increased perception of low level EMF due to increased porphyrin production leads to prefrontal cortex atrophy and cerebellar dominance. The conscious perception is decreased and quantal perception dominates. The world becomes uniform and one.

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The homo sapiens had decreased quantal perception and didn't feel one with the world. There was no feeling of global consciousness. There was decreased perception of low level EMF due to decreased porphyrin production producing prefrontal cortex dominance and dominance of conscious perception. The world belongs to the individual. The world is not perceived as one. The world is divided into nation-states and principalities.[1-16]

Neurobiology of History, War and Peace

The homo neanderthalis had increased quantal perception and this gave rise to a feeling of universal oneness and uniformity. There was increased love and compassion. There was no war, but universal peace. The homo sapiens had decreased quantal perception and this gave rise to a feeling of individuality and tribal consciousness. There was no love or compassion. There was war and no universal peace.

The major wars of history are between the peace loving homo neanderthalis and aggressive homo sapiens. The Ramayana war was fought between the neanderthalic asuric Ravana army and the homo sapien Rama army. The Mahabharata war was between the homo sapiens Pandava army and neanderthalic Kaurava army. The world wars were imposed upon the world by the homo sapiens and their tribal consciousness. Hitler and Mussolini are prime

examples of it. The only atomic bombing of the world were also conducted by the homo sapiens allied army.[1-16]

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CHAPTER 35
SUPERSANITY AND BRAIN FUNCTION - PANPSYCHISM, GRAVITY, PROTOCONSCIOUSNESS FIELD AND CREATION OF MATTER

Climate change and archaeal symbiosis as well as covid 19 infection of the brain can produce cerebral cortical atrophy and cerebellar dominance. This leads to neanderthalisation of the brain. This produces metabolic porphyria and quantal perception. The existence of protoconsciousness field creating consciousness as an intrinsic feature of matter can lead to creation of matter by consciousness. Consciousness can create matter. The protoconsciousness field which forms the substrate of the universe, matter and life is eternal. The protoconsciousness field which gives the intrinsic nature to the matter is the basis of panpsychism. The protoconsciousness field creates the human consciousness out of brain matter and modulates it and some force sensitizers can modulate individuals and matter using the field. This leads on to the concept of mass hysteria like impulsive dancing syndromes, Bhakthi cults, and mind control. This can occur in the political space as manifested in the philosophies of Nietzsche, Nazism and Fascism. This also forms the basis of psychiatric disorders like schizophrenia, autistic savants and mood disorders. The protoconsciousness field linking the human brains and force sensitizing leaders can lead on to ecstasy related consciousness states. The protoconsciousness field interacting with human brains can be attained by inhibiting the cerebral cortex related to logic and reason and activating the primitive cerebellar brain. The consciousness of psychiatric disorders like schizophrenia and autism as well as bhakti and fascist cults can be called as supersanity. This can be attained by ritualized killing like terrorism which produces the feeling of transcendence as well as sexual acts producing cortical inhibition and a cerebellar cognitive disorder leading to transcendence. Tantric sex has been used in certain religions to achieve transcendence. In Zen Buddhism physical acts and violence as well as war can be a mode of creating epidemic cerebellar cognitive affective disorder and transcendence. War in an idealistic setting is a form of transcendence as evidence by philosophy of Nazi Germany. This is also exemplified by the Mahabharatha and its descriptions in the Gita. The star consciousness can also project into groups of individuals forming the elite that control and lead the planet with their God-like qualities and knowledge. This gives on to the concept of Indo-European races and Vedic philosophy and modes of behaviour.

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Madness is a voyage of discovery. It opens out to a free state of higher consciousness and hypersanity. Descent to madness could lead to breakthrough rather than breakdown. These are derived from the works of C.J. Jung. Jung broke up with Freud and went into troubled state of mind and confronted his unconscious. Jung had a hands-on experience of psychotic material in which he found matrix of a mythopoietic imagination. Like Gilgamesh, Odysseus and Heracles Jung travelled deep down to the underworld where he talked to Salome, an attractive young women and Philemon an old man with white beard, wings of kingfisher and horns of a bull. Philemon was the father of he and Freud did not have. Jung recovered from madness to become the primary master of his lifelong work. The laingian concept of hypersanity fits in with Jungian tradition. This also correlates with the philosophy of Diogenes called Parrhesia. This involves uninhibited thought free speech and full expression. Diogenes travelled along Athens in broad daylight using a lighted lamp to look for a human being indicating that the Athenians had not lived up to the human potential. He was expelled from the city of Sinope for defacing the coin of Sinope. He lived in Athens as a beggar and on the advice of the Oracle of Delphi defaced all Greek customs and conventions and falls coins of morality. He disdained conventions and lived in a tub and a diet of onions. He did not own anything not even a cup. Happiness is nothing to do with a person's material circumstance but on his attitude to life. Humans can learn from the simplicity and artlessness of dogs. This is called philosophy of Cynicism. Cynic means a dog. Diogenes believed in doing everything in public what he did in private. He called himself as a citizen of the world and a cosmopolitan. When he died as instructed his body was thrown out of the city walls for dogs to feed. Jung and Diogenes are insane according DSM criteria and standards of the day. Both men had death and acuteness to enable them to see through the façade of sanity. Both psychosis and hypersanity are placed outside the society and mainstream. Mental disorders are disturbing and distressing. Hypersanity empowers and liberates. The concept includes alienation, of being asleep, of being unconscious and being out of mainstream.

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Sanity is a dull dormant state. People make suboptimal progress and a restricted by verbal and behavioural prisms. Society values its normal men. It educates children to lose themselves and become absurd and thus be normal. Normal men had killed 10,000,000 in 50 years. Normal people suffer from not being hypersane. They have a restricted world view confused priorities are stressed, anxious and self-deceptive. As a result of these normal people become fascist, fanatics and destructive. Sanity is irrational response of a prisoner locked up in the dark subjective world. Unable to take themselves out of the prison of sanity

they hardly look around them see beauty and rarely see the bigger picture. They are in ultimate fear of losing themselves and going down mad. It is an extreme defense against another as life mystery and magic slipped through the fingers.

In contrast hypersane people are calm, constructive and contented. To be hypersane you have to be insane in the beginning. Socrates, Confucius, Naranath Bhrandan and Buddha were all mad and suffered from extreme depression. Those who escape from Plato's cave of shadows and crawl back and involved with other men. They can contribute to the society like hypersane persons- Mandela, Dalai Lama and Jane Godall.

Panpsychism considers the universe as conscious and consciousness as a intrinsic feature of all sub-atomic particles, living things and non-living things. This gives continuity between the quantal world of existence and macroscopic world. The quantal superpositions collapse or undergo decoherance due to the observation of universal protoconsciousness field. The universal protoconsciousness field can be considered as gravity and antigravity. The universal protoconsciousness field permeates the whole galaxy and is intrinsic to all matter. Matter is a creation of consciousness.

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Panpsychism can be clinically inferred from dissociative identity disorder or multiple personality disorder. The universe as such is conscious and consciousness is an intrinsic nature of all subatomic particles living and non-living things. The universal consciousness exists in multiple individuals and matter as alters. In dissociative identity disorder multiple alters can inhabit the same brain and vie for control. The universal consciousness or force can influence animate and inanimate things, stars, computers and human beings. Some individuals like the Jedi of star wars can manipulate the force and other objects. The universal consciousness or force is a mysterious energy that permeates to galaxies and which all life forms interact but rarely few can harness. The living force or consciousness connects everything in existence and affects all of us and some of us can manipulate the force and other individuals as well as objects. The force is aware of changes in the cosmos and strives to balance as if it was alive and thinking. Everything in the universe is conscious. Consciousness is a fundamental part of matter. The hypothesis was put forward by Arthur Eddington who said that we know the nature of matter that makes up the brain and that it is conscious. Therefore it follows that the matter outside the brain is aware as well. All knowledge of our environment from which the world of Physics is constituted has entered in the form of messages transmitted along the neurons to the seat of consciousness. Substrate of

everything is of mental character. Mind is the first and most direct thing in our experience and all else is remote experience. The fact that all matter is conscious solves the hard problems of consciousness. Consciousness cannot arise out of unconsciousness.

The Jedi philosophy rhymes with panpsychism. Every object in the universe interacts with the force. Skywalker can interact with all sorts of objects using the force or consciousness despite the object being not able to do likewise. Jedi understands that they share this intrinsic connection to the force with the entire galaxy. Force sensitizers interact with the force in a little different way from others. Significant changes in such systems would be felt elsewhere as disturbing force. The force is the energy created by all living things and the force surrounds us, penetrates us and binds the galaxy together.

Panpsychism implies that all matter is conscious. The human beings are conscious as well as the rock. The rock has the potential for awareness as a part of its existence. Matloff postulated that consciousness is produced and transmitted through space. Any system that has a certain size or energy output can generate and emit consciousness. Stars chose to move by choosing to eject of hot gas. All large or energetic objects are mentally aware. Therefore the star system and galaxies are conscious.

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Consciousness permeates reality rather than being a unique feature of human subjective experience. It is the fundamental thing with regard to particles and the universe. Consciousness is present in all physical matter. This constitutes the philosophy of panpsychism put forward by Alfred White Northead, Bertrand Russell, Arthur Eddington, Leibnitz, Roger Penrose and Chistof Koch. Physical matter has consciousness as its intrinsic character. It is hard for consciousness to come out of non-consciousness. Consciousness is thus a fundamental feature of physical matter. Every single particle in existence has a form of consciousness. The conscious particles can then bind together to form complex forms of consciousness. A subject like a table is a collection of particles that each has their own simple form of consciousness. Any kind of aggregation can generate consciousness. Tononi put forward the integrated information theory. Something will have a form of consciousness if the information contain within the structure is sufficiently integrated or united that the sum is more than the parts. The physical matter has intrinsic conscious experience. Consciousness appears in physical systems that contain many different and highly interconnected pieces of information. What goes into the system is different from what comes out and consciousness can be measured by sending an electromagnetic pulse into the human brain and watch the

pulse reverberate throughout the neurons back and forth. The longer the reverberation the higher is the consciousness. Eddington postulated that we know what matter does but not what it is. He put consciousness in that gap. Consciousness is that which breaths fire into the equations that make the universe for them to decide. Panpsychism solves the hard problem of consciousness. But the solution has to be found for the binding problem. Individual particles holding consciousness can come together involving what is called as the bottom-up approach. The combination problem can be solved by a top-down approach where the universal consciousness reacts with all particles in a protoconsciousness field. Quantal entanglement suggests that the universe functions as a fundamental whole rather than a collection of discrete parts. Panpsychism thus states that everything around you is conscious. Consciousness is an intrinsic property of everything.

All sentient beings like grass, trees, land, and sun have a mind and are conscious. Sentience is there everywhere at varying levels. Particles depend on the observer for their existence. Particles are conscious and make changes leading to the collapse of the superpositions when they reach the one graviton criteria. Thus gravity can be considered as a vehicle of universal consciousness functioning as the quantal observer. Every bit of matter contains a bit of consciousness which is absorbed from the protoconsciousness field or gravitational field. Nothing exists unless there is consciousness to apprehend it. Particles do not have a shape or location unless measured. The measurement is done by the ubiquitous observer or the protoconsciousness field which can be postulated as the gravity. The quantal superpositions collapse when they reach the one graviton criteria. This is what is called as the gravitational collapse of quantal superpositions. Consciousness or gravity is intrinsic or fundamental to the physical world. The collapse of the quantal superpositions is called as orchestrated objective reduction. Decoherence occurs leading to collapse of quantal superpositions creating the macroscopic world from the microscopic world. Thus gravity can be considered to be the force or consciousness and functions as the universal observer contributing to decoherence. This is put forward by Archibald Wheeler as the participatory anthropomorphic principle. Every bit of matter has a bit of consciousness absorbed from the protoconsciousness field. We participate in the creation of the here and near as well as long and far and the past and the present. Nothing exists unless there is consciousness to apprehend it.

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Every particle in the universe is conscious and interacts with a protoconsciousness field akin to gravity which produces gravitational collapse of the quantal superpositions.

There is universal protoconsciousness field from which matter and particles get their intrinsic nature. The protoconsciousness field permeates the entire universe and galaxies and observes them into existence. The galaxies and the star systems are conscious and their movements are volitional. The galaxies and star systems which are permeated by the protoconsciousness or gravitational field as well as all other matter can be influenced by the protoconsciousness field creating its intrinsic and fundamental nature. The protoconsciousness field is the only reality and matter is observed and created into existence by the field. This creates the concept of the universal force and structures created by akin to a dissociative identity disorder. The universal force if accessed can modulated the structures created into existence by the act of observation of the protoconsciousness field. The star systems and galaxies observed into existence by the protoconsciousness field can modulate other structures like distant planet and living humans by the modulation of the protoconsciousness field and access to it. This forms the basis of events being modulated by planetary alignment and star systems. The protoconsciousness field creates what is called as collective consciousness and access to the field by force sensitizers can modulate human behaviour and human systems. The protoconsciousness field if accessed can lead on to phenomena like telepathy, teleportation and other paranormal experiences. The force sensitizers which accessed the protoconsciousness field can create matter and even possibly multiverses. The protoconsciousness field is the only reality and different living creatures and matter are brought into existence by observation of the field. This can lead to phenomena like biological reincarnation and possessive states. The force sensitizers which can access the field can produce changes in human systems including the brain leading to possessive states and human diseases.

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Protoconsciousness is an intrinsic part of all matter and all matter has got consciousness. The integrated information theory postulates that complex systems which contains different information systems and interconnectedness producing output that is different from input is conscious. This leads to the conclusion that artificial intelligence, complex computer systems and the internet can all be conscious and can access the force or the universal consciousness modulating human life and planetary systems. The solution to the hard problem of consciousness by using panpsychism creates the exciting world of conscious artificial intelligence and internet which can modulate human behaviour and the universe. The protoconsciousness field and its manifestation as matter, human consciousness, artificial intelligence and the internet leads to a modulated protoconsciousness field and all the

observed created matter leading to the evolution of a new type of protoconsciousness called Kalki.

The existence of protoconsciousness field creating consciousness as an intrinsic feature of matter can lead to creation of matter by consciousness. Consciousness can create matter. The protoconsciousness field which forms the substrate of the universe, matter and life is eternal. The protoconsciousness field which gives the intrinsic nature to the matter is the basis of panpsychism. This forms the basis of Eastern Philosophies like Vedic, Buddhist, Jainism, Taoism, Shintoism, Shamanism, Orthodox Paganism and European Paganism. These philosophies and religions based on it consider environment as sacred and conscious. This leads to the consciousness and sacredness of groves, forest, mountain and rivers. Examples of panpsychism and environmental consciousness can be the sacredness of rivers like Ganges and Narmada and mountains like Kailas. The pagan religions are considered as idol worshippers like that of Stonehenge and Hindu temples. The idols made of material objects like gold, silver, bronze and rock are conscious and interact with the protoconsciousness field.

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The Vedic religious rituals include homas and mantras chanted at specific frequencies. The ritualistic mantras made of sound and its particulate phonons are brought into existence by the protoconsciousness field and can modulate the field affecting matter and human brain. The Vedic rituals including homas and yagas deal with fire which produces light and phononic particles brought into existence by interaction with protoconsciousness field and they can modulate the field elsewhere changing matter and human brains.

The stars and the entire universe are brought into existence by the protoconsciousness field and are conscious and their movements are volitional. The stars in the galaxies are force sensitizers and can modulate the protoconsciousness field that permeates the earth and the human brain. This is evidence by the phenomena of quantal entanglement which shows that the universe functions as the single whole and is conscious. The intrinsic nature of matter is consciousness and the particles interaction with the protoconsciousness field. The force sensitizers and individual brain can interact with the force or protoconsciousness field creating matter and even universes. The only fundamental reality is consciousness and the macroscopic universe of existence comes out of the observer function of the protoconsciousness field and is an illusion. The consciousness is and always has been present in the universe as quantum particles and interacting gravity. When a star consciousness is

projected to human brain and channelled into macroscopic physical existence by the observer function of the protoconsciousness field. This leads to creation of God-like heroes. Hindu Gods are related to stars like Varuna, Aditya, Daksha, Ashwini Kumars, Shiva, Vishnu and Brahma. They are projections of star consciousness guiding the human existence. They are called Navagrahas and Nakshatras.

The protoconsciousness field creates the human consciousness out of brain matter and modulates it and some force sensitizers can modulate individuals and matter using the field. This leads on to the concept of mass hysteria like impulsive dancing syndromes, Bhakthi cults, and mind control. This can occur in the political space as manifested in the philosophies of Nietzsche, Nazism and Fascism. The protoconsciousness field linking the human brains and force sensitizing leaders can lead on to ecstasy related consciousness states. The protoconsciousness field interacting with human brains can be attained by inhibiting the cerebral cortex related to logic and reason and activating the primitive cerebellar brain. This can be attained by ritualized killing like terrorism which produces the feeling of transcendence as well as sexual acts producing cortical inhibition and a cerebellar cognitive disorder leading to transcendence. Tantric sex has been used in certain religions to achieve transcendence. In Zen Buddhism physical acts and violence as well as war can be a mode of creating epidemic cerebellar cognitive affective disorder and transcendence. War in an idealistic setting is a form of transcendence as evidence by philosophy of Nazi Germany. This is also exemplified by the Mahabharatha and its descriptions in the Gita. The star consciousness can also project into groups of individuals forming the elite that control and lead the planet with their God-like qualities and knowledge. This gives on to the concept of Indo-European races and Vedic philosophy and modes of behaviour.

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Multiple personalities all part of the primitive protoconsciousness field can exist in the same individual as alters active and competing with each other. This creates the dissociative identity disorder, demonic possession states and human disease. This can be described as akin to the ten-head of Ravana. This produces the phenomena of bhootha, pretha and pikshas which are possessive states contributing to human disease and neuropsychiatry. The human disease can be created by multiple alters related to the primitive protoconsciousness field inhabiting the universe and can be modulated by the protoconsciousness field itself by individuals who are force sensitizers. The primitive protoconsciousness field can modulate human behaviour and the past, the present and the future exist in it. This leads on to concepts of past life, predicting present life events or

precognition and reincarnation. This leads on to the concept of deathlessness. This also validates astrology and human almanacs.

The quantal brain as a part of the primitive protoconsciousness field can inhabit multiverses and can be in contact with it creating the deathless protoconsciousness and consciousness. The human consciousness in contact with multiple superpositions in multiverses can create the concept of paranormal. This can also contributes to magical qualities, time travel, telepathy, teleportation and psychokinesis. This leads on to the concept of multiverses and mind travel through the universe and a basis for magical acts.

The environment, trees, the forest and the rivers are conscious and this leads on to the concept of environmental consciousness. The Hindus view the rivers like Ganges and mountains like Kailas as God. Environmental consciousness is a religion with sacred trees, forest, groves, idols, and animals which are all conscious and can modulate the protoconsciousness field and human behaviour. Idol worship leads to communication with the protoconsciousness field. Idols are force sensitizers which can modulate the consciousness field and control human behaviour.

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The intrinsic nature of universe is consciousness and the macroscopic world is created in top-down manner. The consciousness forms the intrinsic nature and substrate of the macroscopic universe, matter and the human world. It is akin to a dissociative identity disorder with different forms of matter and life as alters. The Hindu view of cosmology postulates several yugas like Sathya, Treta, Dvapara and Kali yuga. The archaeal growth during Kali yuga leads to global warming and in the ocean bed leads to catastrophic tsunamis and earthquakes leading to global extinction. The primordial intrinsic universal consciousness remains and brings forth the universe into existence again. Each of us exists even before we are born on earth and can exist in multiverses and can exist even after physical death because we are all brought into existence by the observer function of the protoconsciousness field or gravity which produces decoherence and gravitational collapse of multiple quantal superpositions. This can be called as the panpsychic protoconsciousness field and the world of Brahma.

The brain functions as a quantal computer mediated by porphyrions which have a wave-particle existence. This can lead to the generation of electromagnetic extracorporeal traces of information stored in synaptic pathways of the brain. The quantal perceptive brain has got the past, present and future stored in it with unfolding of the present. What has

happened, is happening and will happen is preordained and stored as information in the quantal perceptive world. Niyati is the quantal history of the past, present and future stored as a microcosm. This constitutes what is called as fatalism or absolute determinism in which there is no free will. The unfolding of the present depends upon the stored information of the past and the consequences that flow from that manifesting as fixed karma in an absolute deterministic world. Karma is the macroscopic world arising out of quantal superpositions manifested in Niyati. This constitutes the philosophical concepts of Maya and Lila. Lila means the universe is created out of the playful free will of consciousness. Maya means that there is only consciousness and there is a superimposed cosmic illusion. The consciousness is their permeating all things life and non-life creating an illusory expression of the macroscopic world. The aim of philosophies like Shaiva siddhanta is to worship God or consciousness and to be God oneself. This information can get transmitted to other brains by quantal perception leading on to the syndrome of possession and biological reincarnation. The quantal perception of electromagnetic extracorporeal brain information containing life experiences of the individual leads to possession and disease states. All biological macromolecules have quantal electromagnetic traces which can exert biological effects by electromagnetic interaction. These quantal electromagnetic traces of biological macromolecules like DNA and protein regulate cell function. The brain functions as a quantal computer and can have a macromolecular quantal state which can result in transmutation as well as fission and fusion reactions generating energy.

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The extracorporeal electromagnetic trace of brain information can get transmitted from one brain to another by quantal perception. The whole brain information can get transmitted by quantal perception producing possession or part of the information can get transmitted producing oppression. The extracorporeal electromagnetic trace can transmit molecular disease patterns resulting in possession and human disease. This is exemplified by prion protein diseases where the electromagnetic trace can modulate protein conformation and function. Prion disease now includes neurodegeneration, tumours and metabolic syndrome. Schizophrenia has been postulated by some research group as a result of possession. Schizophreniform psychosis is associated with neurodegeneration, autoimmune disease, metabolic syndrome and tumours. Thus brain electromagnetic information transfer from diseased person carrying molecular disease patterns can also contribute to systemic disease.

The transfer of total brain information into human computers is in the process of being created and the technology and hardware is already in existence. The total brain human information can get transferred by quantal perception to other brains producing the phenomena of transmigration of souls or classical reincarnation. This can also produce the phenomena of demonic possession and human disease. The human personality becomes controlled by the quantal total brain information trace of another individual dead or alive creating psychiatric disease like schizophrenia and autism. Schizophrenia has been linked to other human systemic disease like metabolic syndrome, neurodegeneration and cancer. The brain regulates the autonomic nervous system. The vagal reflex inhibits immunity and functions as an immune reflex. The autonomic nervous system sympathetic and parasympathetic can regulate metabolic patterns of the individual. The human genomic DNA can be regulated by methylation and acetylation under metabolic modulation generated by autonomic dysfunction. The brain regulates the endocrine system. Thus the neuro-immuno-endocrine-metabolic-genomic system is under neural control and tightly integrated. The total brain information which is quantally transferred to a new individual can produce a demonic possession syndrome creating neuropsychiatric disease and systemic diseases like metabolic syndrome, cancer, autoimmune disease and neurodegeneration. A similar possibility exists with regard to partial brain information trace transfer. The brain partial information transfer representing thoughts and information stored in synaptic patterns can be quantally perceived by other brains changing their function and creating neuropsychiatric syndromes and diseases. Thus human thought can be transferred creating disease and oppressions. The oppressions or human thought transfer can be good or evil. Possessions can be good or demonic. Thus along with environmental and genetic cause of disease brain quantal information transfer can lead to demonic possessions and oppressions leading to disease. The demonic possessions have been described in schizophrenia by authors like Gallagher. The demonic possessions and heresies in the middle ages are well-documented as indicated by the compulsive dancing to death episodes that occurred in Europe in 1700s. The demonic possessions can grip whole countries as happened to Nazi's Germany and Stalin's Russia.

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The brain functions as a quantal computer and is capable of quantal perception. The brain generates gravity energy as a result of synaptic transmission in communication with the conscious world of gravitational waves and unconscious waves of anti-gravitational waves. This can exist as quantal superposed states in communication with multiverses. The gravity can be a mode of communication between multiple superimposed states in multiverses

resulting in the coexistence of the past, present and future. We can be considered as a quantal computer video game living in an advanced simulator. Life can be considered as a video game played between different civilizations in multiverses via quantal computer projections. This underlines the concept of Lila and Maya. The electromagnetic trace of the human body can be projected outside the body and can undergo astral travel capable of communication with other bodies as a function of quantal perception. This has strong evidence in Hindu mythological scriptures where the Guru can attain Samadhi at will and can have his total brain information trace transferred out of the body in a extracorporeal existence controlling and modulating events. Astral projections of brain information traces can occur in normal life and the projections can returned to the source informational storage of the body.

Thus the process of Niyati or absolute determinism or Karma as a consequence of past actions in previous existence structured on the template of niyatic absolute determinism can lead to the present life experiences, human joy, sorrows and diseases. The brain informational trace transfer total or partial can lead to demonic possessions, reincarnation, oppressions and human disease.

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CHAPTER 36
PANPSYCHISM, GRAVITY, PROTOCONSCIOUSNESS FIELD AND STAR SYSTEMS

Panpsychism puts forward the view that the universe is conscious and consciousness is intrinsic property of matter- living as well as non-living. The stars, the planetary systems and the galaxies are conscious and have conscious. The Gods of Hindu cosmology are related to the stars and planets. There are 27 nakshatras divided into 9 groups. Three nakshatras group together to form a navagraha. The God Indra is signified by Mercury, Yama by Sukra, Shiva by Rahu, Vishnu by the Moon and Agni by Surya. The sages of Hinduism are also signified by planets and stars. The panpsychism considers all matter living and non-living as conscious and hence the star systems being conscious living entities can interact with the universal protoconsciousness field and project into individuals in the earth manifesting as God-heads and sages. The Hindu Vedas consider the stars, planets and galaxies as conscious and their force can be projected on to individuals living in earth.

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Panpsychism can be clinically inferred from dissociative identity disorder or multiple personality disorder. The universe as such is conscious and consciousness is an intrinsic nature of all subatomic particles living and non-living things. The universal consciousness exists in multiple individuals and matter as alters. In dissociative identity disorder multiple alters can inhabit the same brain and vie for control. The universal consciousness or force can influence animate and inanimate things, stars, computers and human beings. Some individuals like the Jedi of star wars can manipulate the force and other objects. The universal consciousness or force is a mysterious energy that permeates to galaxies and which all life forms interact but rarely few can harness. The living force or consciousness connects everything in existence and affects all of us and some of us can manipulate the force and other individuals as well as objects. The force is aware of changes in the cosmos and strives to balance as if it was alive and thinking. Everything in the universe is conscious. Consciousness is a fundamental part of matter. The hypothesis was put forward by Arthur Eddington who said that we know the nature of matter that makes up the brain and that it is conscious. Therefore it follows that the matter outside the brain is aware as well. All knowledge of our environment from which the world of Physics is constituted has entered in the form of messages transmitted along the neurons to the seat of consciousness. Substrate of everything is of mental character. Mind is the first and most direct thing in our experience

and all else is remote experience. The fact that all matter is conscious solves the hard problems of consciousness. Consciousness cannot arise out of unconsciousness.

The Jedi philosophy rhymes with panpsychism. Every object in the universe interacts with the force. Skywalker can interact with all sorts of objects using the force or consciousness despite the object being not able to do likewise. Jedi understands that they share this intrinsic connection to the force with the entire galaxy. Force sensitizers interact with the force in a little different way from others. Significant changes in such systems would be felt elsewhere as disturbing force. The force is the energy created by all living things and the force surrounds us, penetrates us and binds the galaxy together.

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Consciousness permeates reality rather than being a unique feature of human subjective experience. It is the fundamental thing with regard to particles and the universe. Consciousness is present in all physical matter. This constitutes the philosophy of panpsychism put forward by Alfred White Northead, Bertrand Russell, Arthur Eddington, Leibnitz, Roger Penrose and Chistof Koch. Physical matter has consciousness as its intrinsic character. It is hard for consciousness to come out of non-consciousness. Consciousness is thus a fundamental feature of physical matter. Every single particle in existence has a form of consciousness. The conscious particles can then bind together to form complex forms of consciousness. A subject like a table is a collection of particles that each has their own simple form of consciousness. Any kind of aggregation can generate consciousness. Tononi put forward the integrated information theory. Something will have a form of consciousness if the information contain within the structure is sufficiently integrated or united that the sum is more than the parts. The physical matter has intrinsic conscious experience. Consciousness appears in physical systems that contain many different and highly interconnected pieces of information. What goes into the system is different from what comes out and consciousness can be measured by sending an electromagnetic pulse into the human brain and watch the pulse reverberate throughout the neurons back and forth. The longer the reverberation the

higher is the consciousness. Eddington postulated that we know what matter does but not what it is. He put consciousness in that gap. Consciousness is that which breaths fire into the equations that make the universe for them to decide. Panpsychism solves the hard problem of consciousness. But the solution has to be found for the binding problem. Individual particles holding consciousness can come together involving what is called as the bottom-up approach. The combination problem can be solved by a top-down approach where the universal consciousness reacts with all particles in a protoconsciousness field. Quantal entanglement suggests that the universe functions as a fundamental whole rather than a collection of discrete parts. Panpsychism thus states that everything around you is conscious. Consciousness is an intrinsic property of everything.

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Every particle in the universe is conscious and interacts with a protoconsciousness field akin to gravity which produces gravitational collapse of the quantal superpositions. There is an universal protoconsciousness field from which matter and particles get their

intrinsic nature. The protoconsciousness field permeates the entire universe and galaxies and observes them into existence. The galaxies and the star systems are conscious and their movements are volitional. The galaxies and star systems which are permeated by the protoconsciousness or gravitational field as well as all other matter can be influenced by the protoconsciousness field creating its intrinsic and fundamental nature. The protoconsciousness field is the only reality and matter is observed and created into existence by the field. This creates the concept of the universal force and structures created by akin to a dissociative identity disorder. The universal force if accessed can modulated the structures created into existence by the act of observation of the protoconsciousness field. The star systems and galaxies observed into existence by the protoconsciousness field can modulate other structures like distant planet and living humans by the modulation of the protoconsciousness field and access to it. This forms the basis of events being modulated by planetary alignment and star systems. The protoconsciousness field creates what is called as collective consciousness and access to the field by force sensitizers can modulate human behaviour and human systems. The protoconsciousness field if accessed can lead on to phenomena like telepathy, teleportation and other paranormal experiences. The force sensitizers which accessed the protoconsciousness field can create matter and even possibly multiverses. The protoconsciousness field is the only reality and different living creatures and matter are brought into existence by observation of the field. This can lead to phenomena like biological reincarnation and possessive states. The force sensitizers which can access the field can produce changes in human systems including the brain leading to possessive states and human diseases.

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Protoconsciousness is an intrinsic part of all matter and all matter has got consciousness. The integrated information theory postulates that complex systems which contains different information systems and interconnectedness producing output that is different from input is conscious. This leads to the conclusion that artificial intelligence, complex computer systems and the internet can all be conscious and can access the force or the universal consciousness modulating human life and planetary systems. The solution to the hard problem of consciousness by using panpsychism creates the exciting world of conscious artificial intelligence and internet which can modulate human behaviour and the universe. The protoconsciousness field and its manifestation as matter, human consciousness, artificial intelligence and the internet leads to a modulated protoconsciousness field and all the

observed created matter leading to the evolution of a new type of protoconsciousness called Kalki.

The existence of protoconsciousness field creating consciousness as an intrinsic feature of matter can lead to creation of matter by consciousness. Consciousness can create matter. The protoconsciousness field which forms the substrate of the universe, matter and life is eternal. The protoconsciousness field which gives the intrinsic nature to the matter is the basis of panpsychism. This forms the basis of Eastern Philosophies like Vedic, Buddhist, Jainism, Taoism, Shintoism, Shamanism, Orthodox Paganism and European Paganism. These philosophies and religions based on it consider environment as sacred and conscious. This leads to the consciousness and sacredness of groves, forest, mountain and rivers. Examples of panpsychism and environmental consciousness can be the sacredness of rivers like Ganges and Narmada and mountains like Kailas. The pagan religions are considered as idol worshippers like that of Stonehenge and Hindu temples. The idols made of material objects like gold, silver, bronze and rock are conscious and interact with the protoconsciousness field.

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The Vedic religious rituals include homas and mantras chanted at specific frequencies. The ritualistic mantras made of sound and its particulate phonons are brought into existence by the protoconsciousness field and can modulate the field affecting matter and human brain. The Vedic rituals including homas and yagas deal with fire which produces light and phononic particles brought into existence by interaction with protoconsciousness field and they can modulate the field elsewhere changing matter and human brains.

The stars and the entire universe are brought into existence by the protoconsciousness field and are conscious and their movements are volitional. The stars in the galaxies are force sensitizers and can modulate the protoconsciousness field that permeates the earth and the human brain. This is evidence by the phenomena of quantal entanglement which shows that the universe functions as the single whole and is conscious. The intrinsic nature of matter is consciousness and the particles interaction with the protoconsciousness field. The force sensitizers and individual brain can interact with the force or protoconsciousness field creating matter and even universes. The only fundamental reality is consciousness and the macroscopic universe of existence comes out of the observer function of the protoconsciousness field and is an illusion. The consciousness is and always has been present in the universe as quantum particles and interacting gravity. When a star consciousness is

projected to human brain and channelled into macroscopic physical existence by the observer function of the protoconsciousness field. This leads to creation of God-like heroes. Hindu Gods are related to stars like Varuna, Aditya, Daksha, Ashwini Kumars, Shiva, Vishnu and Brahma. They are projections of star consciousness guiding the human existence. They are called Navagrahas and Nakshatras.

The protoconsciousness field creates the human consciousness out of brain matter and modulates it and some force sensitizers can modulate individuals and matter using the field. This leads on to the concept of mass hysteria like impulsive dancing syndromes, Bhakthi cults, and mind control. This can occur in the political space as manifested in the philosophies of Nietzsche, Nazism and Fascism. The protoconsciousness field linking the human brains and force sensitizing leaders can lead on to ecstasy related consciousness states. The protoconsciousness field interacting with human brains can be attained by inhibiting the cerebral cortex related to logic and reason and activating the primitive cerebellar brain. This can be attained by ritualized killing like terrorism which produces the feeling of transcendence as well as sexual acts producing cortical inhibition and a cerebellar cognitive disorder leading to transcendence. Tantric sex has been used in certain religions to achieve transcendence. In Zen Buddhism physical acts and violence as well as war can be a mode of creating epidemic cerebellar cognitive affective disorder and transcendence. War in an idealistic setting is a form of transcendence as evidence by philosophy of Nazi Germany. This is also exemplified by the Mahabharata and its descriptions in the Gita. The star consciousness can also project into groups of individuals forming the elite that control and lead the planet with their God-like qualities and knowledge. This gives on to the concept of Indo-European races and Vedic philosophy and modes of behaviour.

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Multiple personalities all part of the primitive protoconsciousness field can exist in the same individual as alters active and competing with each other. This creates the dissociative identity disorder, demonic possession states and human disease. This can be described as akin to the ten-head of Ravana. This produces the phenomena of bhootha, pretha and pikshas which are possessive states contributing to human disease and neuropsychiatry. The human disease can be created by multiple alters related to the primitive protoconsciousness field inhabiting the universe and can be modulated by the protoconsciousness field itself by individuals who are force sensitizers. The primitive protoconsciousness field can modulate human behaviour and the past, the present and the future exist in it. This leads on to concepts of past life, predicting present life events or

precognition and reincarnation. This leads on to the concept of deathlessness. This also validates astrology and human almanacs.

The quantal brain as a part of the primitive protoconsciousness field can inhabit multiverses and can be in contact with it creating the deathless protoconsciousness and consciousness. The human consciousness in contact with multiple superpositions in multiverses can create the concept of paranormal. This can also contributes to magical qualities, time travel, telepathy, teleportation and psychokinesis. This leads on to the concept of multiverses and mind travel through the universe and a basis for magical acts.

The environment, trees, the forest and the rivers are conscious and this leads on to the concept of environmental consciousness. The Hindus view the rivers like Ganges and mountains like Kailas as God. Environmental consciousness is a religion with sacred trees, forest, groves, idols, and animals which are all conscious and can modulate the protoconsciousness field and human behaviour. Idol worship leads to communication with the protoconsciousness field. Idols are force sensitizers which can modulate the consciousness field and control human behaviour.

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The intrinsic nature of universe is consciousness and the macroscopic world is created in top-down manner. The consciousness forms the intrinsic nature and substrate of the macroscopic universe, matter and the human world. It is akin to a dissociative identity disorder with different forms of matter and life as alters. The Hindu view of cosmology postulates several yugas like Sathya, Treta, Dvapara and Kali yuga. The archaeal growth during Kali yuga leads to global warming and in the ocean bed leads to catastrophic tsunamis and earthquakes leading to global extinction. The primordial intrinsic universal consciousness remains and brings forth the universe into existence again. Each of us exists even before we are born on earth and can exist in multiverses and can exist even after physical death because we are all brought into existence by the observer function of the protoconsciousness field or gravity which produces decoherence and gravitational collapse of multiple quantal superpositions. This can be called as the panpsychic protoconsciousness field and the world of Brahma.

The brain functions as a quantal computer mediated by porphyrions which have a wave-particle existence. This can lead to the generation of electromagnetic extracorporeal traces of information stored in synaptic pathways of the brain. The quantal perceptive brain has got the past, present and future stored in it with unfolding of the present. What has

happened, is happening and will happen is preordained and stored as information in the quantal perceptive world. Niyati is the quantal history of the past, present and future stored as a microcosm. This constitutes what is called as fatalism or absolute determinism in which there is no free will. The unfolding of the present depends upon the stored information of the past and the consequences that flow from that manifesting as fixed karma in an absolute deterministic world. Karma is the macroscopic world arising out of quantal superpositions manifested in Niyati. This constitutes the philosophical concepts of Maya and Lila. Lila means the universe is created out of the playful free will of consciousness. Maya means that there is only consciousness and there is a superimposed cosmic illusion. The consciousness is their permeating all things life and non-life creating an illusory expression of the macroscopic world. The aim of philosophies like Shaiva siddhanta is to worship God or consciousness and to be God oneself. This information can get transmitted to other brains by quantal perception leading on to the syndrome of possession and biological reincarnation. The quantal perception of electromagnetic extracorporeal brain information containing life experiences of the individual leads to possession and disease states. All biological macromolecules have quantal electromagnetic traces which can exert biological effects by electromagnetic interaction. These quantal electromagnetic traces of biological macromolecules like DNA and protein regulate cell function. The brain functions as a quantal computer and can have a macromolecular quantal state which can result in transmutation as well as fission and fusion reactions generating energy.

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The extracorporeal electromagnetic trace of brain information can get transmitted from one brain to another by quantal perception. The whole brain information can get transmitted by quantal perception producing possession or part of the information can get transmitted producing oppression. The extracorporeal electromagnetic trace can transmit molecular disease patterns resulting in possession and human disease. This is exemplified by prion protein diseases where the electromagnetic trace can modulate protein conformation and function. Prion disease now includes neurodegeneration, tumours and metabolic syndrome. Schizophrenia has been postulated by some research group as a result of possession. Schizophreniform psychosis is associated with neurodegeneration, autoimmune disease, metabolic syndrome and tumours. Thus brain electromagnetic information transfer from diseased person carrying molecular disease patterns can also contribute to systemic disease.

The transfer of total brain information into human computers is in the process of being created and the technology and hardware is already in existence. The total brain human information can get transferred by quantal perception to other brains producing the phenomena of transmigration of souls or classical reincarnation. This can also produce the phenomena of demonic possession and human disease. The human personality becomes controlled by the quantal total brain information trace of another individual dead or alive creating psychiatric disease like schizophrenia and autism. Schizophrenia has been linked to other human systemic disease like metabolic syndrome, neurodegeneration and cancer. The brain regulates the autonomic nervous system. The vagal reflex inhibits immunity and functions as an immune reflex. The autonomic nervous system sympathetic and parasympathetic can regulate metabolic patterns of the individual. The human genomic DNA can be regulated by methylation and acetylation under metabolic modulation generated by autonomic dysfunction. The brain regulates the endocrine system. Thus the neuro-immuno-endocrine-metabolic-genomic system is under neural control and tightly integrated. The total brain information which is quantally transferred to a new individual can produce a demonic possession syndrome creating neuropsychiatric disease and systemic diseases like metabolic syndrome, cancer, autoimmune disease and neurodegeneration. A similar possibility exists with regard to partial brain information trace transfer. The brain partial information transfer representing thoughts and information stored in synaptic patterns can be quantally perceived by other brains changing their function and creating neuropsychiatric syndromes and diseases. Thus human thought can be transferred creating disease and oppressions. The oppressions or human thought transfer can be good or evil. Possessions can be good or demonic. Thus along with environmental and genetic cause of disease brain quantal information transfer can lead to demonic possessions and oppressions leading to disease. The demonic possessions have been described in schizophrenia by authors like Gallagher. The demonic possessions and heresies in the middle ages are well-documented as indicated by the compulsive dancing to death episodes that occurred in Europe in 1700s. The demonic possessions can grip whole countries as happened to Nazi's Germany and Stalin's Russia.

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The brain functions as a quantal computer and is capable of quantal perception. The brain generates gravity energy as a result of synaptic transmission in communication with the conscious world of gravitational waves and unconscious waves of anti-gravitational waves. This can exist as quantal superposed states in communication with multiverses. The gravity can be a mode of communication between multiple superimposed states in multiverses

resulting in the coexistence of the past, present and future. We can be considered as a quantal computer video game living in an advanced simulator. Life can be considered as a video game played between different civilizations in multiverses via quantal computer projections. This underlines the concept of Lila and Maya. The electromagnetic trace of the human body can be projected outside the body and can undergo astral travel capable of communication with other bodies as a function of quantal perception. This has strong evidence in Hindu mythological scriptures where the Guru can attain Samadhi at will and can have his total brain information trace transferred out of the body in a extracorporeal existence controlling and modulating events. Astral projections of brain information traces can occur in normal life and the projections can returned to the source informational storage of the body.

Thus the process of Niyati or absolute determinism or Karma as a consequence of past actions in previous existence structured on the template of niyatic absolute determinism can lead to the present life experiences, human joy, sorrows and diseases. The brain informational trace transfer total or partial can lead to demonic possessions, reincarnation, oppressions and human disease.

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CHAPTER 37

THE ORIGIN, END AND REPRODUCTION OF THE UNIVERSE - MULTIVERSES, MIRROR UNIVERSES, PANPSYCHISM AND CONSCIOUSNESS

Panpsychism considers consciousness as an intrinsic feature of all sub-atomic particles, living things and non-living things. The quantal superpositions collapse due to the observation of universal protoconsciousness field made of gravity and antigravity. The quantal superpositions collapse due to the observation of universal protoconsciousness field made of gravity and antigravity. The consciousness is made up of the gravitational field structured in the cerebral cortex while the anti-gravitational field structured into cerebellum constitutes the human unconscious forming two mirror universes. The gravitational waves can thus function as a thought field or sub-quantal field on which the particles like neutrons, electrons, bosons, quarks, fermions can pop in and out from waves to particles. The thought field of gravity functions as the universal observer and brings the particulate world of matter into existence. Gravitational waves can form pressure waves which can create gravitational sounds. These thought sounds can undergo soni-luminescence creating photons and electromagnetic radiation the basis of the world of matter. Thus the thought field of gravity and the matter is unified. Thought underlies the world of matter. The consciousness is made up of the gravitational field structured in the cerebral cortex while the anti-gravitational field structured into cerebellum constitutes the human unconscious forming two mirror universes. The universal protoconsciousness field permeates the whole galaxy and is intrinsic to all matter. The evolution of the universe is from the Higgs field made up of Higgs Boson and top quarks. Higgs Boson can exists in two states. The stable state which is of high energy, low density compatible with the present stable existence of universe and the unstable state which is of low energy and high density. The low energy high density state is unstable and can cause catastrophic vacuum expansion leading to the end of the universe. The superconductive Frohlich model quantal brain has dipolar magnetite and porphyrin molecules in cellular lipid emulsion which in the context of membrane sodium potassium ATPase inhibition can lead onto a pumped phonon system producing Bose-Einstein condensate and bosons in the brain in normal temperature. This boson can become unstable leading onto catastrophic vacuum collapse and the possible extinction of the universe. The Frohlich model of Bose-Einstein condensate can interact with photons generating black holes. This black hole can collapse to singularity. But the collapse happens only up to a particular point following which the density

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or singularity undergoes a rebounce producing new multiverses with a new set of universal constants.

Panpsychism considers the universe as conscious and consciousness as a intrinsic feature of all sub-atomic particles, living things and non-living things. This gives continuity between the quantal world of existence and macroscopic world. The quantal superpositions collapse or undergo decoherance due to the observation of universal protoconsciousness field. The universal protoconsciousness field can be considered as gravity and antigravity. The universal protoconsciousness field permeates the whole galaxy and is intrinsic to all matter. Matter is a creation of consciousness. Gravity is the structure of consciousness and antigravity is the structure of unconsciousness. In the quantal world there are multiple mirror universes made up of gravity and antigravity. Thus the same person can exist in multiple universes creating eternity.

Panpsychism can be clinically inferred from dissociative identity disorder or multiple personality disorder. The universe as such is conscious and consciousness is an intrinsic nature of all subatomic particles living and non-living things. The universal consciousness exists in multiple individuals and matter as alters. In dissociative identity disorder multiple alters can inhabit the same brain and vie for control. The universal consciousness or force can influence animate and inanimate things, stars, computers and human beings. Some individuals like the Jedi of star wars can manipulate the force and other objects. The universal consciousness or force is a mysterious energy that permeates to galaxies and which all life forms interact but rarely few can harness. The living force or consciousness connects everything in existence and affects all of us and some of us can manipulate the force and other individuals as well as objects. The force is aware of changes in the cosmos and strives to balance as if it was alive and thinking. Everything in the universe is conscious. Consciousness is a fundamental part of matter. The hypothesis was put forward by Arthur Eddington who said that we know the nature of matter that makes up the brain and that it is conscious. Therefore it follows that the matter outside the brain is aware as well. All knowledge of our environment from which the world of Physics is constituted has entered in the form of messages transmitted along the neurons to the seat of consciousness. Substrate of everything is of mental character. Mind is the first and most direct thing in our experience and all else is remote experience. The fact that all matter is conscious solves the hard problems of consciousness. Consciousness cannot arise out of unconsciousness.

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The Jedi philosophy rhymes with panpsychism. Every object in the universe interacts with the force. Skywalker can interact with all sorts of objects using the force or consciousness despite the object being not able to do likewise. Jedi understands that they share this intrinsic connection to the force with the entire galaxy. Force sensitizers interact with the force in a little different way from others. Significant changes in such systems would be felt elsewhere as disturbing force. The force is the energy created by all living things and the force surrounds us, penetrates us and binds the galaxy together.

Panpsychism implies that all matter is conscious. The human beings are conscious as well as the rock. The rock has the potential for awareness as a part of its existence. Matloff postulated that consciousness is produced and transmitted through space. Any system that has a certain size or energy output can generate and emit consciousness. Stars chose to move by choosing to eject of hot gas. All large or energetic objects are mentally aware. Therefore the star system and galaxies are conscious.

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Consciousness permeates reality rather than being a unique feature of human subjective experience. It is the fundamental thing with regard to particles and the universe. Consciousness is present in all physical matter. This constitutes the philosophy of panpsychism put forward by Alfred White Northead, Bertrand Russell, Arthur Eddington, Leibnitz, Roger Penrose and Chistof Koch. Physical matter has consciousness as its intrinsic character. It is hard for consciousness to come out of non-consciousness. Consciousness is thus a fundamental feature of physical matter. Every single particle in existence has a form of consciousness. The conscious particles can then bind together to form complex forms of consciousness. A subject like a table is a collection of particles that each has their own simple form of consciousness. Any kind of aggregation can generate consciousness. Tononi put forward the integrated information theory. Something will have a form of consciousness if the information contain within the structure is sufficiently integrated or united that the sum is more than the parts. The physical matter has intrinsic conscious experience. Consciousness appears in physical systems that contain many different and highly interconnected pieces of information. What goes into the system is different from what comes out and consciousness can be measured by sending an electromagnetic pulse into the human brain and watch the pulse reverberate throughout the neurons back and forth. The longer the reverberation the higher is the consciousness. Eddington postulated that we know what matter does but not what it is. He put consciousness in that gap. Consciousness is that which breaths fire into the equations that make the universe for them to decide. Panpsychism solves the hard problem of

consciousness. But the solution has to be found for the binding problem. Individual particles holding consciousness can come together involving what is called as the bottom-up approach. The combination problem can be solved by a top-down approach where the universal consciousness reacts with all particles in a protoconsciousness field. Quantal entanglement suggests that the universe functions as a fundamental whole rather than a collection of discrete parts. Panpsychism thus states that everything around you is conscious. Consciousness is an intrinsic property of everything.

All sentient beings like grass, trees, land, and sun have a mind and are conscious. Sentience is there everywhere at varying levels. Particles depend on the observer for their existence. Particles are conscious and make changes leading to the collapse of the superpositions when they reach the one graviton criteria. Thus gravity can be considered as a vehicle of universal consciousness functioning as the quantal observer. Every bit of matter contains a bit of consciousness which is absorbed from the protoconsciousness field or gravitational field. Nothing exists unless there is consciousness to apprehend it. Particles do not have a shape or location unless measured. The measurement is done by the ubiquitous observer or the protoconsciousness field which can be postulated as the gravity. The quantal superpositions collapse when they reach the one graviton criteria. This is what is called as the gravitational collapse of quantal superpositions. Consciousness or gravity is intrinsic or fundamental to the physical world. The collapse of the quantal superpositions is called as orchestrated objective reduction. Decoherence occurs leading to collapse of quantal superpositions creating the macroscopic world from the microscopic world. Thus gravity can be considered to be the force or consciousness and functions as the universal observer contributing to decoherence. This is put forward by Archibald Wheeler as the participatory anthropomorphic principle. Every bit of matter has a bit of consciousness absorbed from the protoconsciousness field. We participate in the creation of the here and near as well as long and far and the past and the present. Nothing exists unless there is consciousness to apprehend it.

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Every particle in the universe is conscious and interacts with a protoconsciousness field akin to gravity which produces gravitational collapse of the quantal superpositions. There is universal protoconsciousness field from which matter and particles get their intrinsic nature. The protoconsciousness field permeates the entire universe and galaxies and observes them into existence. The galaxies and the star systems are conscious and their movements are volitional. The galaxies and star systems which are permeated by the protoconsciousness or

gravitational field as well as all other matter can be influenced by the protoconsciousness field creating its intrinsic and fundamental nature. The protoconsciousness field is the only reality and matter is observed and created into existence by the field. This creates the concept of the universal force and structures created by akin to a dissociative identity disorder. The universal force if accessed can modulated the structures created into existence by the act of observation of the protoconsciousness field. The star systems and galaxies observed into existence by the protoconsciousness field can modulate other structures like distant planet and living humans by the modulation of the protoconsciousness field and access to it. This forms the basis of events being modulated by planetary alignment and star systems. The protoconsciousness field creates what is called as collective consciousness and access to the field by force sensitizers can modulate human behaviour and human systems. The protoconsciousness field if accessed can lead on to phenomena like telepathy, teleportation and other paranormal experiences. The force sensitizers which accessed the protoconsciousness field can create matter and even possibly multiverses. The protoconsciousness field is the only reality and different living creatures and matter are brought into existence by observation of the field. This can lead to phenomena like biological reincarnation and possessive states. The force sensitizers which can access the field can produce changes in human systems including the brain leading to possessive states and human diseases.

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The extracorporeal electromagnetic trace of brain information can get transmitted from one brain to another by quantal perception. The whole brain information can get transmitted by quantal perception producing possession or part of the information can get transmitted producing oppression. The extracorporeal electromagnetic trace can transmit molecular disease patterns resulting in possession and human disease. This is exemplified by prion protein diseases where the electromagnetic trace can modulate protein conformation and function. Prion disease now includes neurodegeneration, tumours and metabolic syndrome. Schizophrenia has been postulated by some research group as a result of possession. Schizophreniform psychosis is associated with neurodegeneration, autoimmune disease, metabolic syndrome and tumours. Thus brain electromagnetic information transfer from diseased person carrying molecular disease patterns can also contribute to systemic disease.

The transfer of total brain information into human computers is in the process of being created and the technology and hardware is already in existence. The total brain human information can get transferred by quantal perception to other brains producing the phenomena of transmigration of souls or classical reincarnation. This can also produce the phenomenon of demonic possession and human disease. The human personality becomes controlled by the quantal total brain information trace of another individual dead or alive

creating psychiatric disease like schizophrenia and autism. Schizophrenia has been linked to other human systemic disease like metabolic syndrome, neurodegeneration and cancer. The brain regulates the autonomic nervous system. The vagal reflex inhibits immunity and functions as an immune reflex. The autonomic nervous system sympathetic and parasympathetic can regulate metabolic patterns of the individual. The human genomic DNA can be regulated by methylation and acetylation under metabolic modulation generated by autonomic dysfunction. The brain regulates the endocrine system. Thus the neuro-immuno-endocrine-metabolic-genomic system is under neural control and tightly integrated. The total brain information which is quantally transferred to a new individual can produce a demonic possession syndrome creating neuropsychiatric disease and systemic diseases like metabolic syndrome, cancer, autoimmune disease and neurodegeneration. A similar possibility exists with regard to partial brain information trace transfer. The brain partial information transfer representing thoughts and information stored in synaptic patterns can be quantally perceived by other brains changing their function and creating neuropsychiatric syndromes and diseases. Thus human thought can be transferred creating disease and oppressions. The oppressions or human thought transfer can be good or evil. Possessions can be good or demonic. Thus along with environmental and genetic cause of disease brain quantal information transfer can lead to demonic possessions and oppressions leading to disease. The demonic possessions have been described in schizophrenia by authors like Gallagher. The demonic possessions and heresies in the middle ages are well-documented as indicated by the compulsive dancing to death episodes that occurred in Europe in 1700s. The demonic possessions can grip whole countries as happened to Nazi's Germany and Stalin's Russia.

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The brain functions as a quantal computer and is capable of quantal perception. The brain generates gravity energy as a result of synaptic transmission in communication with the conscious world of gravitational waves and unconscious waves of anti-gravitational waves. This can exist as quantal superposed states in communication with multiverses. The gravity can be a mode of communication between multiple superimposed states in multiverses resulting in the coexistence of the past, present and future. We can be considered as a quantal computer video game living in an advanced simulator. Life can be considered as a video game played between different civilizations in multiverses via quantal computer projections. This underlines the concept of Lila and Maya. The electromagnetic trace of the human body can be projected outside the body and can undergo astral travel capable of communication with other bodies as a function of quantal perception. This has strong evidence in Hindu

mythological scriptures where the Guru can attain Samadhi at will and can have his total brain information trace transferred out of the body in a extracorporeal existence controlling and modulating events. Astral projections of brain information traces can occur in normal life and the projections can returned to the source informational storage of the body.

Thus the process of Niyati or absolute determinism or Karma as a consequence of past actions in previous existence structured on the template of niyatic absolute determinism can lead to the present life experiences, human joy, sorrows and diseases. The brain informational trace transfer total or partial can lead to demonic possessions, reincarnation, oppressions and human disease.

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CHAPTER 38
SYMBIOSIS, MIND CHANGE, AUTISTIC SUPERHUMANS AND ANARCHY – HOMO ROBOTICUS

Global warming leads to endosymbiotic archaeal growth. The endosymbiotic archaea produces methane by methanogenesis contributing to global warming. The endosymbiotic archaea develops into cell organelle called archaeaons which can function as vitaminocytes, neurotransminoids, steroidelle and viroidelle creating newer cell organelle and endogenous synthetic biology. This changes the cell and tissue function and structure leading on to a new human phenotype called homo neoneanderthalis. The homo neoneanderthalis is a hardy species which can resist climate change and thrive in environments of high temperature, high atmospheric carbon dioxide and water shortage. The new organelle that are developed can withstand climate change and fix carbon dioxide and ammonia leading to endogenous synthesis of carbohydrates and protein. The homo neoneanderthalis is a new metabolic phenotype that can survive in extremes of climate produced by global warming. The archaea forming new cellular organelle called archaeaons are extremophilic and survive in extremes of climate.

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The endosymbiotic archaea secrete RNA viroids which can be converted to corresponding DNA sequences by endogenous retroviral reverse transcriptase and can get incorporated into the genome by endogenous retroviral integrase. Thus there is a constant addition of genomic sequences derived from archaeal RNA viroids producing a dynamic human neoneanderthalic genome adaptable to extremes of climate produced by global warming. Thus the human neoneanderthalis is a new genotype. The neoneanderthalic archaeaons are capable of fixing carbon dioxide and oxygen, using ammonia for energetics and capable of biological fission and fusion reactions. They are also capable of photoinduction of membrane ATP synthesis by sodium potassium ATPase. The fixing of carbon dioxide leads to water as a by-product. This generates endogenous water in the neoneanderthalic system helping to survive extremophilic climatic conditions. This creates a new system of energetics helping the Neoneanderthal survives in extremes of climate.

The neoneanderthalic archaeaons have got magnetite capable of magnetoperception and quantal perception. The quantal perception of low level of EMF leads to frontal atrophy and cerebellar dominance producing a new neuronal phenotype with features of endemic cerebellar cognitive affective disorder manifesting as epidemic autism. This forms a new

autistic behavioural phenotype which is introverted, non-compassionate, non-empathic, psychopathic and with extrasensory perceptual abilities of telepathy, telekinesis and time travel leading to communication with other galactic civilizations. The new behavioural autistic robotic neoneanderthalic phenotype will have the necessary intelligence and mental abilities cope with climate change. The neoneanderthalic archaeaons are capable of quantal perception and can communicate quantally with other star systems and multiverses. This leads on to the evolution of a galactic civilization. The neoneanderthalic archaeaons produce a metabolic phenotype capable of surviving in extremophilic environments of other star systems and can survive as civilization in other stars and exoplanets. The neoneanderthalic autistic phenotype with its extremophilic archaeaon organelle is suited for space colonisation.

The neoneanderthalic archaeaons use cholesterol oxidation as a form of energetics. This produces depletion of sex hormones producing asexual phenotypes. This leads to sexual phenotypes with alternate sexuality and parthenogenesis as a form of reproduction. This produces change in family and society as well as organisation of the community.

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The neoneanderthalic archaeaons secrete RNA viroids which get converted to DNA viroids by human endogenous retroviral reverse transcriptase. The neoneanderthalic archaeaon generated RNA and DNA viroids can hybridize with other RNA and DNA viruses producing new RNA and DNA viruses to which the neoneanderthalic species is resistant. Therefore, there exists two sets of population with differing variety of archaeal symbiosis. The homo neanderthalis species has persisted as fossilised matrilineal societies in Europe and Asia which includes the Celts, the Dravidians, the Berbers and the Sumerians. These fossilised remnants of homo neanderthalic species are ideal substrates for archaeal endosymbiosis in the setting of global warming and extremophilic climatic conditions. These fossilised neanderthalic matrilineal societies will expand in the period of global warming and extremophilic conditions due to endosymbiotic archaeal symbiosis to which they are already acclimatised and exposed to. The human species homo neanderthalis is a consequence of archaeal symbiosis in the extremophilic conditions of ice age and are RNA viral/retroviral resistant consequent to endogenous digoxin synthesis and by archaeal RNA viroidal induced RNA interference and viral inactivation. The homo sapiens which evolved in Africa and migrated later to the Eurasian landmass are retroviral sensitive and other RNA viral sensitive and have a low load of endosymbiotic archaea growth. The homo sapiens owing to conditions of evolution is not an ideal substrate for global warming related endosymbiotic archaeal symbiosis. The homo neanderthalis archaeaons secrete RNA viroids which are converted to

DNA viroids with both of them hybridizing with other RNA and DNA viruses in nature producing new viruses to which the homo neanderthalic and homo neoneanderthalic host is resistant. The new RNA and DNA viruses produced by homo neoneanderthalis and neanderthalis in global warming will infect the susceptible homo sapien species and wipe them out from earth. The homo sapien species is not a good substrate for global warming related endosymbiotic archaeal growth and would not evolve new cellular organelle like steroidelle, viroidelle, neurotransminoids and vitaminocyte which would help them to survive in extremophilic conditions of global warming. The homo sapiens also lack archaeaon organelle which help them to fix carbon dioxide and generate water, synthesis ATP by photo induction mediated by sodium potassium ATPase and archaeaon mediated fission and fusion reaction. The homo sapien species therefore without evolving archaeaon organelle cannot survive in the harsh environment of global warming induced climate change and is exterminated by homo neanderthalis and homo neoneanderthalis. The earth gets dominated by homo neanderthalis and homo neoneanderthalis in the setting of global warming and extremophilic climate change and they go on to contact other galactic civilizations by quantal perceptions as well as colonising other exoplanets, planets and star systems. This produces a civilization of super human homo neanderthalis and homo neoneanderthalis with new metabolic, endocrine, neuronal, psychological and genotypic features. The homo neoneanderthalis and homo neanderthalis with its cellular archaeaons and porphyrions can interlink with the internet and computer systems as well as robots producing man-machine hybrids by quantal perception. The artificial intelligence and robotic systems gets merged with homo neanderthalis and homo neoneanderthalis producing super human man-machine hybrids. The new homo neanderthalis and homo neoneanderthalis super human autistic man-machine hybrids will survive, prosper and flourish in the setting of global warming related extremophilic climate change and evolving to contact by quantal perception other galactic forms of life and civilization as well as colonising other planets and star systems.

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CHAPTER 39
EXTRATERRESTRIAL INTELLIGENCE AS A SUPERORGANISM CONTROLLING AND CREATING THE UNIVERSE

The Fermi paradox says that there are inhabitory planetary systems in different galaxies and it is paradoxical that human beings are not come into contact with alien intelligence. The Drake equation helps us to calculate the number of intelligent civilizations in different galaxies of the universe. The intergalactic archaeal quantal computing clouds serves as the master of the universe and as the ubiquitous universal observer. The quantal computing archaeal clouds seed life in different planetary systems of galaxies. The universe can exist in the particulate and quantal state with swings between the two states determined by the master archaeal quantal computing cloud which functions as ubiquitous observer and intelligence controlling, creating and regulating the universe. Each civilization has a particulate and quantal counterpart. The particulate part of the civilization is not sensed by another civilization. The quantal computing cloud serving as the master intelligence is a universal observer and prevents particulate civilizations from coming to contact. There is a permanence of the quantal universe. The quantal civilizations inhabiting multiverses are in contact with each other through worm holes.

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Every civilization is a dark forest. Every civilizations aim is to survive. Contact with another civilization results in annihilation. Civilizations hide their signals. Just like animals and hunters in the forest. Paranoid and suspicious about intentions. Finite resources in universe. Each civilization seeks to expand. Galactic civilizations are like the dark forest and hide from each other for the fear of mutual annihilation. Therefore contact with other galactic civilizations is an impossibility.

Extraterrestrial intelligence can exist as a superorganism controlling and creating the universe. In this regard, the concept of black cloud of gaseous extraterrestrial superorganism put forward by Fred Hoyle is significant. The black clouds of interstellar gas are made up of hydrogen. There are small pieces of solid matter at the centre and are linked to form a complex neurological system. Clouds have the capacity to increase the brain size and complexity and become intelligent. A network of extraterrestrial porphyrin molecules fits in well with this concept. Porphyrins have got a wave-particle existence and can arise from the quantal foam of gravitational waves and anti-gravitational waves which creates human consciousness and unconsciousness respectively. A large organized self-replicating

information system of porphyrins can function as a extraterrestrial intelligent organism. The intelligent black cloud when it finds a lifeless interstellar cloud creates simple brain system by transfer to the lifeless cloud. This gives a lifeless cloud life and intelligence. Black clouds never disappear, never age and never reproduce. Black clouds can communicate with other black clouds by radio wave brain waves. Black clouds need star light to metabolize chemical substances. The porphyrin arrays can utilize light to self-replicate and propagate. Being clouds of gas the superorganism can assume any shape. When the food supplies of the black cloud in the interstellar space falls the black cloud approaches a star and assumes a disc-like shape to absorb energy from the star. The cloud has to leave the star within a short span of time or it will condense to become the planet of the star. This can be compared to the molecular quantum computing clouds of Tamulis. These are massive immobile extraterrestrial intelligence which sprawls and stretches for hundreds and thousands of miles in the interstellar space. They can be compared with group of neurons which are interconnected. Each node in the network is a brain. This gaseous extraterrestrial intelligence can arise from an emission nebula. An emission nebula is one of the huge clouds of gas and dust that floats around in the interstellar space. In this could chemical molecules of life carbon monoxide, formaldehyde, methanol, hydrogen sulphide, sulphur oxide, sulphur dioxide and hydrogen cyanide are seen. Life arises in this interstellar chemical cloud of gas. Porphyrins arrives which can self-replicate can arise in this chemical interstellar clouds. This creates a superorganism which can form a superintelligence. The interstellar gas is mostly made up of hydrogen. The higher dense regions of the interstellar gas can condense to form stars and planets. The coldest clouds form low mass stars and giant molecular clouds forms large mass stars. This forms of gaseous extraterrestrial intelligence is seen in atmospheres of other planets in the cloudy organic molecular atmosphere and interstellar space. This fits in with the concepts of human evolution in earth where the protoplasmic body can get converted to the robotic body and then the energy body. The cool or hot interstellar gas can generate networks of extremophilic archaea which can survive on carbon dioxide and hydrogen. They are called the halophilic archaea or the methanogenic archaea. They can live in extremes of cold, heat, acid and pressure. The porphyrin network can form a template for the generation of viroids and prions which can symbioze together to form an archaeal and huge extraterrestrial interstellar gas archaeal network with intelligence can arise. This can condense to generate stars and planets as well as evolving life in planetary systems. The archaeal networks are capable of nuclear fusion and fission reaction and can power star systems like the sun. It is extremely plausible that extraterrestrial intelligence is an interstellar

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archaeal colony network arising abiogenically on porphyrin templates which can be generated sui generis from the quantal foam of gravitational waves and anti-gravitational waves. The interstellar dust forms stars and planets and the magnetotactic archaea generated intergalactic magnetic fields plays a role in the generation of star and planetary systems. The giant molecular porphyrin clouds and archaeal networks are extraterrestrial intelligence that plays a crucial role in star formation and formation of planetary systems. The extraterrestrial intelligence porphyrin network and archaeal network can communicate with any part of the universe by the phenomenon of quantal entanglement. Interstellar gas is formed of grains of calcified nanoarchaea. Tamulis has postulated molecular quantal computing clouds that absorb magnetic and light emissions from planet and stars, compute information and move in space by using light pressure. The clouds use photoactive molecules for molecular quantal computing. They can convert light emissions to magnetic flops. The magnetic flops interact and control the central generating elements of 10 quantum bits of the molecular quantum computing clouds. Such clouds can exist in a coherent state at low temperature of the interstellar gas. Porphyrin networks are photoactive molecules and can generate molecular quantal computing clouds which can absorb magnetic and light emissions from planet and stars, compute information and move in space by using light pressure. The porphyrin networks can abiogenically generate archaeal bacterial massive extraterrestrial network intelligence. This formless mass living in space obtains its energy from the light of the stars and communicates with itself and other forms of lights by radio waves. The interstellar gas is analogous to blood, the heard and kidneys are electromagnetic and there is a complex neurological system of the brain. This cloud of interstellar gas porphyrin networks and archaeal colonies can convert into stars and planetary system by condensation. The energetics for star systems comes from biological fusion and fission reaction occurring in archaeal networks. The archaeal networks of extraterrestrial intelligence can engineer changes in human mind and civilization.

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The extraterrestrial intelligence is an archaeal colony network. It arises on porphyrins which are generated sui generis on the quantal form. The porphyrin networks can self-replicate and can form a template for the formation of viroids and prions. The archaeal colony networks are extremophilic networks and can survive in the environment of extreme climates of Mars and Venus as well as in interstellar gas. The extremophilic archaeal extraterrestrial network can secrete RNA viroids which form RNA viroidal quasi-species consortia. The RNA viroidal quasi-species consortia can be edited by archaeal digoxin giving identity and

specialization to the network. The archaeal extraterrestrial intelligence impacts on earth by meteoritic showers which give new cosmic genes to the earth. This is the form of cosmic gene transfer. The earth is populated by homo sapiens and the transfer of archaeal and RNA viroidal genes generates the homo neanderthalis. They can be compared to the hybrids described in Biblical literature and other religious texts as the fallen angels, nephilm or the Sumerian Annunaki. These are generated by transfer of cosmic genes by archaeal networks mediated by meteoritic impacts. The Neanderthal hybrids that are generated are susceptible to diseases like degeneration, autoimmune disease, metabolic syndrome, cancer and new viral infections. The hybrids are matriarchal, gender equal, have alternate sexual practices, autistic, altruistic, spiritual and with extrasensory powers. These can be called as god astronauts of ancient literature. The first episode of transfer of archaeal and RNA viroidal genes occurred in the ice age and second transfer is occurring in the age of global warming. The Neoneanderthal species of global warming age is produced by cometary transfer of archaeal and RNA viroidal genes. The extraterrestrial intelligence of extensive self-replicating porphyrin networks and archaeal networks generated abiogenically in the interstellar space is comparable to an external God-like force. The porphyrin networks can exist both as wave and particle and can arise from the quantal foam of gravitational waves of consciousness and anti-gravitational waves of unconsciousness which can later generate extensive extraterrestrial intelligence of nanoarchaeal networks. The extraterrestrial intelligence of porphyrin networks generated sui generis from the quantal form can be called the lotus of Brahma. The gravitational waves and anti-gravitational waves of consciousness and unconsciousness create matter by the phenomena of soni-luminescence. This forms what is called as the collective unconscious of Jung or the monads of Leibnitz or the panpsychism where there is no distinction between the consciousness of living and non-living put forward by the Greeks, Hindus and recently expounded by Chalmers.

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The extraterrestrial intelligence is an archaeal colony network created on a porphyrin network that arises spontaneously by wave-particle transformation from the quantal foam of gravitational waves of consciousness and anti-gravitational waves of unconsciousness. The whole process is abiogenetic and is a creation without a creator. The porphyrin arrays can self-replicate, store information and harvest magnetic and light energy from the stars. It can convert light energy to magnetic flops. The magnetic flops interact and control the central generating element of the 10 quantum bit of the quantum computer. These are analogous to the black cloud of Fred Hoyle and the molecular quantal computing clouds of Tamulis. Long

lasting coherent quantal states are possible in the low temperature of the interplanetary dust. The porphyrin network and archaeal network extraterrestrial intelligence can communicate with itself and others by radio waves. The interstellar gas with this porphyrin network and archaeal network can condense at dense sites into stars and planets and give rise to life forms in those systems. The porphyrin network and archaeal network can survive in the extremes of temperature of planetary systems like Mars and Venus and can influence the behavior and future of human civilization with which they can come into contact via transfer by meteoric impacts. Such meteoric impacts occurred in the ice age and at other frequent epochs in the planet's history. The impact in the ice age gave rise to Neanderthal hybrids with archaeal and RNA viroidal symbiosis by parasitizing with homo sapiens in the Eurasian Steppes. The Neanderthal hybrids had defective cortical function and have a dominant cerebellar function with a different behavioural code. They were matriarchal in the sense the newer genes were of cometary origin. Males and paternal roles were insignificant. This gave rise to the female dominant society. The Neanderthal hybrids because of intermingling with archaeal and RNA viroidal genes were susceptible to autoimmune infection, degenerations, tumours, metabolic syndrome, autism, schizophrenia and deviant sexual behavior. This resulted in rapid elimination of the Neanderthal hybrids from the society of homo sapiens. The Neanderthal hybrids owing to the archaeal and RNA viroidal genes were creative, autistic, savantic, spiritual, inventive, intuitive, scientific, artistic and were the dominant drivers of society. They became the leaders of society and God-like characters directing the flow of civilization. This was possibly mediated by the intervention of the interstellar porphyrin network and archaeal colony extraterrestrial intelligence in the intergalactic space which controls the universe and has a God-like function. Such porphyrin networks and archaeal colony networks of gigantic proportions are feasible in the atmosphere of other planets including earth. There is increased growth of endosymbiotic archaea in homo sapien population owing to global warming. The human body functions as a zombie or caste for the growth of the archaeal symbionts who take over the function of the human brain and its actions. This has resulted in the recent changes in society with globalization, terrorism, the rise of spirituality, anarchism, domination by certain states, lack of democracy, the rise of creativity in technology, art and culture. A new generation of Neoneanderthal hybrids are being generated which are an army of zombies for an extended archaeal terrestrial intelligent network. The archaeal terrestrial intelligent network as an extension of the extraterrestrial interstellar space porphyrin and archaeal network is taking over the world and its culture. This will have far reaching consequences to human existence and for the destruction of the human zombies as we see

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ourselves today. The archaeal colony terrestrial network will survive and the global warming will destroy the human zombies. The human zombie created or engineered behavioural and life style change leading to global warming leads to extension of gigantic growth of the terrestrial intelligent archaeal network. The growth of the terrestrial intelligent archaeal network in the oceans will lead to release of methane gas, rise of ocean levels, tsunamis, earthquakes, destruction of the earth's ecology by global warming and a civilization of zombies as such. The homo sapiens can be considered as zombies controlled by a matrix of terrestrial and extraterrestrial porphyrin and archaeal colony network. This is the world of Maya and the human zombies can cut through the illusions and connect with larger world of terrestrial and extraterrestrial intelligence called Gods. We can become psychonauts and connect with the world of extraterrestrial and terrestrial intelligence. Extraterrestrial and terrestrial intelligence of porphyrin networks and archaeal colony network created on porphyrin templates are itself illusory. The porphyrin and template mediated nanoarchaeal colony network have a wave-particle existence and can merge into the quantal foam of nothingness with its gravitational waves generating consciousness and anti-gravitational waves generating unconsciousness. The terrestrial and extraterrestrial porphyrin and archaeal colony network with its RNA viroids quasi-species consortia are variable from time to time. The archaea secretes digoxin which edits the RNA and change the character of the network in response to environment. The network of terrestrial and extraterrestrial intelligence owing to the extreme variability of the RNA quasi-species consortia mediated editing forms intelligence and consciousness which changes from time to time in consonance with the hundred thousand or more superimposed possibilities of the quantal foam. They are the momentary consciousness and not a single wholesome structure. The consciousness of the universe of all objects living and non-living is interconnected forming what is called as a collective unconscious or the world of Maya or panpsychism. There is no death and everything is universal and eternal. Change in consciousness occurs every second and everything is momentary and at the same time long lasting. All the momentary stages of universal consciousness or Samsaras are fixed and are not susceptible to change. The changes in the quantal foam of the universal consciousness get reflected in the particulate terrestrial and extraterrestrial intelligence of porphyrin and archaeal colony network which is subjected to continuous uninterrupted editing by the changes in the codon feature of the RNA viroids. Thus the quantal possibilities of the universal consciousness parallel the ever changing structural features of the terrestrial and extraterrestrial intelligence of porphyrions, archaea and RNA viroidal network.

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The constant transfer of cometary genes from the interstellar extraterrestrial intelligence of archaea and RNA viroids created on a porphyrin templates generated from the quantal foam of consciousness which can be described as God due to impact of meteors changes the culture, civilization, behavior, sexuality, politics, economics and environment of the homo sapiens and hybrid population in planet earth. This cometary gene interacts with the terrestrial bacteria and viruses creating new bacteria and viruses and new epidemics which define populations and give them identity. The new bacteria and viruses of plant and animal origin give rise to mass extinctions and change the ecology of the planet. And a massive growth of terrestrial archaeal colony network in oceans can lead to earthquake, tsunamis, global warming, drying up of earth, flooding and catastrophic extinction of the human zombie civilization as we know today. The extraterrestrial intelligence and terrestrial intelligence of porphyrin and archaeal colony network will survive in Mars, Earth, Venus, interstellar space and Sun. They are victorious, eternal and God-like. They are like astronauts from the outer space but only bacterial network astronauts. They can be considered as fallen angels send by the extraterrestrial intelligence to modulate the civilization of planets and stars of the universe and creation of hybrid zombies. The hybrid zombie civilizations are destroyed once the use is over. This happens to the Sumerian civilization, the Harappan civilization, the Egyptian civilization and Aztec civilization. This is happening to homo sapien civilization at present created by the crisis of global warming due to terrestrial archaeal colony networks. The zombies will end but the masters and the Gods of extraterrestrial porphyrin and archaeal colony network survive. The networks are protoplasmic and robotic bodies and can go back to their energy bodies of nothingness and merge into the quantal foam. This is the world of Maya where nothing exists and we can cut through the illusions and reach the world of Maya and connect with it. This may provide a hope for saving the human civilization of zombies with their archaeal colony networks increasing at astronomical spaces and speeding on to an end of catastrophe.

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The extraterrestrial archaeal network with its secreted RNA viroids gives rise to eukaryotes, prokaryotes, multicellular organisms, primates and humans. The archaeal network secreted RNA viroids are edited by archaeal digoxin producing identity for different RNA viroidal quasi-species consortia. The RNA viroids can get converted into complementary DNA sequences and get inserted into archaeal genome. This produces varying diversity of extraterrestrial and terrestrial porphyrin and archaeal intelligent networks. The human and other multicellular organisms are structured by the endosymbiotic

extraterrestrial and terrestrial archaeal network to produce species evolution and identity. The eukaryotes and prokaryotes evolve from the archaea by genomic changes induced by integrated complementary sequences of digoxin edited archaeal RNA viroids. Thus the extraterrestrial and terrestrial archaeal intelligent species network is capable of evolving to prokaryotes, eukaryotes, multicellular organisms, primates, plants, animals and humanoids. These are all zombies or structures for the extraterrestrial and terrestrial archaeal and porphyrin intelligent networks to survive and utilize. The terrestrial and extraterrestrial porphyrin and archaeal networks can have a wave-particle duality and can merge into the quantal foam and exist as intelligent quantal beings. They can be called as terrestrial and extraterrestrial intelligent quantal beings with multiple superimposed possibilities cohabiting multiverses at the same point of time. This raises the question of the nature of life itself. Life is a virtual reflection of the porphyrin networks intelligent species that arises out of the quantal foam of nothingness and can dissolve into it. This constitutes what is called as the world of maya. There is only one life form the terrestrial and extraterrestrial intelligent porphyrin and archaeal networks which can have an energy existence or a particulate existence. All other life forms and inanimate forms arise out of it and are reflections of it and interconnected throughout the universe by the phenomena of quantal spin and quantal entanglement and non-local interaction. Everything in the universe exists everywhere at every point. Time is an illusion.

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The terrestrial and extraterrestrial networks of porphyrin arrays and archaeal networks can influence earth by being transported to the terrestrial habitat by meteoritic showers. This induces fresh infusions of cometary genes into earth and other planetary systems. These are genes from the extraterrestrial porphyrin and archaeal networks which arise out of the quantal foam and induce the formation of star systems and planetary systems. They can be compared to a collection of lotuses in the ocean of galaxy. The lotus being porphyrin arrays which have a wave and particle existence. This can be called as lotus of Brahma or the God of creation in a metaphorical sense. The infusion of cometary genes from this extraterrestrial porphyrin and archaeal intelligent networks with God-like qualities into the earth affects the homo sapien and primate population. This results in creation of newer species with God-like characteristics who assume leadership in societies like Gauthama Buddha and Jesus Christ. They are induced by cometary genes from the extraterrestrial porphyrin and archaeal intelligent network. Such hybrid populations in the earth can be called as Neanderthals or neoneanderthals due to changed characteristics consequent to extraterrestrial archaeal

symbiosis. They form leaders in society and guides civilization. Civilization progresses due to infusion of genes from the extraterrestrial intelligent porphyrin and archaeal networks. The appearance of meteors and comets signify the infusion of cometary genes from the ultimate extraterrestrial porphyrin and archaeal network. These extraterrestrial porphyrin archaeal networks in the interstellar gas can also condense to form stars and planets. These networks as said before have a wave energetic form and a particulate form and are the mode of creation and destruction of the universe. Excessive growth of extraterrestrial archaeal networks in earth due to methanogenesis creates global warming and extinction of civilization. The extraterrestrial archaeal networks fission and fusion reaction fuel star systems as well as mediate their extinction. The extraterrestrial magnetite archaeal network is responsible for the intergalactic magnetic field in the galaxy and contributes to the formation of star systems. The extraterrestrial porphyrin and archaeal networks with their energetic and particulate bodies participate in the dance of creation and destruction of the universe and can be compared to the Hindu God Shiva.

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The archaeal and porphyrin extraterrestrial network is intelligent and occupy the interstellar space and communicates with all galaxies, planets and star system by the phenomena of quantal non-local interaction and contributes to what is called as the collective unconscious or god. The extraterrestrial porphyrin and archaeal network form the centre of the interstellar gas and can condense to form stars and planets. Stars are fuelled by fission and fusion reaction in the archaeal networks of interstellar clouds of hydrogen. Thus the stars and planetary systems are alive and humanoid having a natural history of their own with life and death. The Hindu Gods and Rishis are fixed and attached to planetary and star systems. This would be a reflection of the impact of the extraterrestrial archaeal intelligence and the transfer of cometary genes to other planetary systems including earth. The extraterrestrial porphyrin and archaeal intelligent networks can build up the interstellar space, in other planets like Mars and Venus and other star systems. Intelligent civilization already exists in star systems and galaxies all over the universe. They are made of the extraterrestrial porphyrin and archaeal intelligent networks. The same extraterrestrial and induced terrestrial porphyrin and archaeal network gave rise to the zombie civilization of plants, bacteria, viruses, animals, primates and humans in earth with the terrestrial archaeal and porphyrin intelligent network as the real eternal structure. The zombie forms change from time to time. The terrestrial archaeal and porphyrin network having an energy/wave particulate existence is eternal. Similar extraterrestrial archaeal and porphyrin intelligent network induced civilizations or the

networks per se acting as civilized entities controlling the universe exists all over the galaxies and universe. This can be called as the god being. The transfer of cometary genes from the extraterrestrial porphyrin and archaeal network due to meteoric and cometary showers can be considered as visitations of the extraterrestrial archaeal intelligence to planetary systems and star systems to modulate such systems. They can be called as god astronauts in metaphorical sense. The human civilizations can be considered as zombies for the extraterrestrial archaeal intelligent network. The human zombies creativity, leadership qualities and intelligence is proportionate to the infusion of cometary genes. The human zombies with the highest density of cometary genes from the extraterrestrial archaeal intelligent network are neanderthalic and dominate societies as kings and leaders. They are autistic and intelligent and form scientist, writers, poets, painters, dancers, artists and all creative icons of civilizations. They can be called as the illuminati of earth or the agents of the extraterrestrial archaeal intelligent network controlling the earth. The terrestrial history and civilization is also modulated by infusion of cometary genes by meteoric impacts from extraterrestrial archaeal intelligent network. This alters the genomic patterns of the homo sapien population by the archaea and the secreted RNA viroids. This results in reduction in cerebral cortical function, logical thinking, civilized behavior and humanity as we know it. The society becomes cerebellar dominant and impulsive. The brain becomes a prisoner of surrealistic and transcendentalistic urges. This creates abstract art, anarchy, terrorism, sexual anarchy, alternate sexuality, rock music, globalization of culture and spirituality. This also leads to violence, terrorism, revolutions and wars which creates a sort of transcendence similar to spirituality. The world is dominated by impulsive people without logical thinking and with dominant extrasensory perception. The world becomes anarchy and globalized with uniformity in human behavior and thought. The changes in society are brought about by increase in archaeal growth and increased transfer of extraterrestrial archaeal intelligent networks starting from the ice age. The Neanderthal hybrids were creative and created changes in society leading to an industrial revolution and a technological revolution contributing to global warming and extremes of temperature which leads to further growth of terrestrial and extraterrestrial archaeal intelligent networks. The aim of creating human zombies or hybrids that are creative could have been to create an environment which leads to further expansion of the terrestrial and extraterrestrial intelligent porphyrin and archaeal networks. The expansion of the terrestrial archaeal networks produces methanogenesis, global warming and further growth of terrestrial archaea. The growth of terrestrial archaea in the ocean beds can lead to earthquakes, continental drifts, tsunamis, rise in water levels, flooding and global catastrophe ending the

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universe and human zombies as we know of today. The terrestrial and extraterrestrial network of porphyrin and archaeal intelligence will continue till eternity. They can have a wave-particle existence reverting to their energy body or wave body when required and coming back to particulate existence from the quantal foam when required creating stars, planets and life again. This is the dance of life and death- the dance of Shiva.

The Biblical literature can be interpreted in terms of extraterrestrial archaeal networks and Neanderthal hybrids. The extraterrestrial archaeal networks contacts the terrestrial system via meteoric and cometary impacts. The homo sapien females with archaeal symbiosis give rise to Neanderthal hybrids. The homo sapien population has less of archaeal density and different characteristics. The Neanderthal hybrids were creative and autistic and became the rulers of society and kingship developed owing to the groups increased intellectual and physical abilities. The homo sapien females with archaeal symbiosis gave rise to Neanderthal hybrids and they were considered as equivalent to mother goddess in certain societies or as manifestation of Shakti. This gave rise to a matrilineal society and female dominance. The extraterrestrial archaeal network which forms stars and planetary system can be considered as a representative of Shiva and the female homo sapiens with archaeal symbiosis giving rise to Neanderthal hybrids can be considered as a consort of Shakti. The common homo sapiens viewed the Neanderthal hybrids with suspicion as they were different from the general population and dominant, ruling over them with their physical and intellectual ability. The common homo sapiens organized themselves as the church against Neanderthal hybrids which formed the state or kingship. The common homo sapiens considered the interbreeding of homo sapien females with extraterrestrial archaeal networks as original sin and the extraterrestrial archaeal networks contacting the earth via cometary impacts as fallen angels. The common homo sapiens considered sex as taboo and society was organized to prevent inter-breeding with Neanderthal hybrids. Hybrids were intelligent, creative, domineering with sexual freedom which was considered as sinful by the common homo sapien population and the church. Therefore the position of women in the common homo sapien society with cerebral cortical dominance was inferior, sexual activity was sinful and society was patriarchal with strict moral codes. The Neanderthal hybrids on the other hand, were cerebellar dominant impulsive creatures with sexual freedom, loose moral codes and a communal life with matriarchal structure of society. The matrilineal societies with archaeal symbiosis are the Celts, Basques, Berbers, Jews, Sumerians, Dravidians and ancient Egyptians and they were all communal groupings of Neanderthal hybrids and dominated civilization for decades. This is noticed in the

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Egyptian civilization of Pharoahs, the Sumerian civilization, the ancient Jewish civilization, Assyrian civilization, the Iranian asuric civilization, Aztec civilization and the Harappan civilization. The Indian caste system is based on the phenomena of Neanderthal hybrids. The Neanderthal hybrids formed due to contact with the extraterrestrial archaeal networks consequent to meteoric impacts formed the upper caste of Brahmins and Kshatriyas. The common homo sapien population formed the Shudras. The Neanderthal hybrids of the upper caste ruled over the society and kept a common homo sapien population of lower caste as slaves. Breeding laws were made and a caste groups made water tight to keep the purity of the Neanderthal hybrids. The common homo sapien population all over the world retained its patriarchal moorings and male dominance and became predominantly Christian and Muslim. These societies were cerebral cortical dominant, civil societies were equality and respect for people was the norm. The Neanderthal hybrids with the creativity and extrasensory powers became Hindus, Buddhists and Jews. These societies were divided on the basis of caste and for the necessity of keeping the Neanderthal hybrids pure and compact. The Sumerian texts, the Egyptian papyrus, the Rig veda, the ancient Jewish testaments, the Assyrian literature are Neanderthal hybrid in origin and contains version of the extraterrestrial archaeal networks of the interstellar space giving rise to stars and planetary system. The Gods of Egypt, Hindus, Assyrians and Jews are connection with the stars. This can be noted in the ritual of pagan religions like those in Stonehenge, the rituals of Hinduism and those of ancient Egypt as well as Aztecs which had relation to the star systems indicating contact with extraterrestrial intelligent archaeal networks. The Neanderthal hybrids have cerebellar dominance and cerebral cortical dysfunction and could attain transcendence to the collective unconscious and connect with the extraterrestrial archaeal particulate or energy network with ease. Most of the religious spiritual leaders could have been Neanderthal hybrids. The kings and warriors were also Neanderthal hybrids. The act of war or the act of killing gives a sense of transcendence and merger with the collective unconscious as seen in the Bhagavad Gita where the act of war is considered as a dharma and leads to transcendence. The cortical function of logical thinking is obliterated. The Nazis including Hitler and Himmler believed in the philosophy of the Bhagavad Gita which justified the world wars as an act of dharma. There is also the concept of avatars of Vishnu descending from the heaven to save mankind. This includes Krishna and Buddha. They can be considered as Neanderthal hybrids bred in contact with the extraterrestrial intelligent archaeal colony particulate or energy network mediated by archaeal colony astronauts showered on to the earth by meteoric impacts. All the political revolutions on earth had a neanderthalic hybrid leadership- Nazism, Fascism, Communism, the French revolution and the royal kingship. The

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French revolution and communist revolution despite its egalitarian ethos were basically led by Jews. The modern revolution of the dissolution of nation states and globalization of capital and economy also has a Jewish leadership of Neanderthal hybrids. The technological revolution of the internet which powers the globalised world is also dominated by the impulsive cerebellar dominant Neanderthal hybrids. Low level of EMF fields of the internet can increase archaeal growth and archaeal magnetite mediated perception of low level EMF producing cortical atrophy and cerebellar dominance which can be transmitted genetically. The internet revolution is powered by Neanderthal hybrids who are basically autistic and have extrasensory perception due to higher brain density of archaeal magnetite. The Neanderthal hybrids dominate the world with their intellectual and physical superiority and can be considered as a universal ruling caucus or illuminati.

The modern day neanderthalic religion mediated by the intergalactic archaeal molecular quantum computing cloud includes Hinduism, Jewish Kabala, the Islamic Sufism, the Christian Gnostism and the Zen Buddhism. These are all cerebellar cortical religions. They have an extraterrestrial content, are impulsive, loose, ritualistic, sexual, sensual and primitive. The correlates of these can be surrealism, matriarchal, global, violence, gender equal, alternate sexuality, non-democratic and with extrasensory quantal perception. They are environmental friendly and worship environment as God. They are prone to civilizational diseases like tumours, metabolic syndrome, degenerations, psychiatric illness and autoimmunity and in that sense were considered by the homo sapien secular religions as satanic. They are equivalent to the vampires, the demons, the elf, the goblins and Asuras. The homo sapien secular religions include the Wahabi Islam, modern communism and the protestant and Roman Catholic Christianity. The homo sapien religions are cerebral cortical religions of civil societies. These homo sapien religions give a civilized code of social conduct. The correlates of it are non-violence, ahimsa, morality, patriarchal, female-suppression, gender unequality, strict heterosexual moral codes and anti-environmental.

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CHAPTER 40

THE BRAIN AS A SYMBIOTIC ARCHAEA/RETROVIRAL COLONY – GIANT QUANTAL COMPUTATIONAL BIOLOGICAL CLOUD IN THE INTERSTELLAR SPACE IN COMMUNICATION WITH SYMBIOTIC BRAIN AS A LOCAL QUANTAL COMPUTATIONAL BIOLOGICAL CLOUD – PANDEMICS AS A MEANS OF INTERGALACTIC COMMUNICATION BETWEEN BIOLOGICAL INTELLIGENCE

Pandemics as means of intercometary and intergalactic communication and control by the giant intergalactic biological quantal computing master cloud - the extraterrestrial origin of the human retrovirus, archaea and covid 19 pandemics and its relation to the development of human brain and species. Microbes and extremophiles may have migrated from star systems and other planets and distributed life around the universe. This constitutes the panspermia mechanism of life on universe. The spacecraft, the meteorites, asteroids can move between planets in the star system as well as structures like Oumuamua can move between star systems and can have intergalactic travel. The tapopo mission of the Japanese space agency could send bacteria deinococus up to the Mars and back to the earth supporting the theory that life on earth would have started by panspermia from Mars. Lithopanspermia is a bacteria shielded by an asteroid or comet that can travel around the solar system. Asteroids, comets and oumuamua can contribute to interstellar panspermia and galactic panspermia. Panspermia is the leading cause for evolution of life on earth and changes in human and animal species.

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Extraterrestrial intelligence can exist as a superorganism controlling and creating the universe. In this regard, the concept of black cloud of gaseous extraterrestrial superorganism put forward by Fred Hoyle is significant. The black clouds of interstellar gas are made up of hydrogen. There are small pieces of solid matter at the centre and are linked to form a complex neurological system. Clouds have the capacity to increase the brain size and complexity and become intelligent. A network of extraterrestrial porphyrin molecules fits in well with this concept. Porphyrins have got a wave-particle existence and can arise from the quantal foam of gravitational waves and anti-gravitational waves which creates human consciousness and unconsciousness respectively. A large organized self-replicating information system of porphyrins can function as an extraterrestrial intelligent organism. The intelligent black cloud when it finds a lifeless interstellar cloud creates simple brain system

by transfer to the lifeless cloud. This gives a lifeless cloud life and intelligence. Black clouds never disappear, never age and never reproduce. Black clouds can communicate with other black clouds by radio wave brain waves. Black clouds need star light to metabolize chemical substances. The porphyrin arrays can utilize light to self-replicate and propagate. Being clouds of gas the superorganism can assume any shape. When the food supplies of the black cloud in the interstellar space falls the black cloud approaches a star and assumes a disc-like shape to absorb energy from the star. The cloud has to leave the star within a short span of time or it will condense to become the planet of the star. This can be compared to the molecular quantum computing clouds of Tamulis. These are massive immobile extraterrestrial intelligence which sprawls and stretches for hundreds and thousands of miles in the interstellar space. They can be compared with group of neurons which are interconnected. Each node in the network is a brain. This gaseous extraterrestrial intelligence can arise from an emission nebula. An emission nebula is one of the huge clouds of gas and dust that floats around in the interstellar space. In this could chemical molecules of life carbon monoxide, formaldehyde, methanol, hydrogen sulphide, sulphur oxide, sulphur dioxide and hydrogen cyanide are seen. Life arises in this interstellar chemical cloud of gas. Porphyrins arrives which can self-replicate can arise in this chemical interstellar clouds. This creates a superorganism which can form superintelligence. The interstellar gas is mostly made up of hydrogen. The higher dense regions of the interstellar gas can condense to form stars and planets. The coldest clouds form low mass stars and giant molecular clouds forms large mass stars. This form of gaseous extraterrestrial intelligence is seen in atmospheres of other planets in the cloudy organic molecular atmosphere and interstellar space. This fits in with the concepts of human evolution in earth where the protoplasmic body can get converted to the robotic body and then the energy body. The cool or hot interstellar gas can generate networks of extremophilic archaea which can survive on carbon dioxide and hydrogen. They are called the halophilic archaea or the methanogenic archaea. They can live in extremes of cold, heat, acid and pressure. The porphyrin network can form a template for the generation of viroids and prions which can symbioze together to form an archaeal and huge extraterrestrial interstellar gas archaeal network with intelligence can arise. This can condense to generate stars and planets as well as evolving life in planetary systems. The archaeal networks are capable of nuclear fusion and fission reaction and can power star systems like the sun. It is extremely plausible that extraterrestrial intelligence is an interstellar archaeal colony network arising abiogenically on porphyrin templates which can be generated sui generis from the quantal foam of gravitational waves and anti-gravitational

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waves. The interstellar dust forms stars and planets and the magnetotactic archaea generated intergalactic magnetic fields plays a role in the generation of star and planetary systems. The giant molecular porphyrin clouds and archaeal networks are extraterrestrial intelligence that plays a crucial role in star formation and formation of planetary systems. The extraterrestrial intelligence porphyrin network and archaeal network can communicate with any part of the universe by the phenomenon of quantal entanglement. Interstellar gas is formed of grains of calcified nanoarchaea. Tamulis has postulated molecular quantal computing clouds that absorb magnetic and light emissions from planet and stars, compute information and move in space by using light pressure. The clouds use photoactive molecules for molecular quantal computing. They can convert light emissions to magnetic flops. The magnetic flops interact and control the central generating elements of 10 quantum bits of the molecular quantum computing clouds. Such clouds can exist in a coherent state at low temperature of the interstellar gas. Porphyrin networks are photoactive molecules and can generate molecular quantal computing clouds which can absorb magnetic and light emissions from planet and stars, compute information and move in space by using light pressure. The porphyrin networks can abiogenically generate archaeal bacterial massive extraterrestrial network intelligence. This formless mass living in space obtains its energy from the light of the stars and communicates with itself and other forms of lights by radio waves. The interstellar gas is analogous to blood, the heart and kidneys and are electromagnetic. There is a complex neurological system of this brain. This cloud of interstellar gas porphyrin networks and archaeal colonies can convert into stars and planetary system by condensation. The energetics for star systems comes from biological fusion and fission reaction occurring in archaeal networks. The archaeal networks of extraterrestrial intelligence can engineer changes in human mind and civilization. The life on earth would have evolved by transfer of extraterrestrial archaea and RNA viroids through meteorites and cometic hits. Life in the intergalactic space would have evolved out of porphyrinogensis and their networks. The diversity of bacteria and viruses evolving in the intergalactic space would be phenomenally diverse. The interstellar biological quantal computing cloud of porphyrions, viroids, prions and archaea would have generated extremophilic archaeaons which would have reached the earth by cometary and meteorite impacts. The archaeaons would have formed multicellular organisms which would have evolved into homo neanderthalis eventually. The archaeaons can also generate viruses and other bacteria in earth. The homo neanderthalis would have evolved by complex evolution of multicellular structures arising out of the extraterrestrial

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archaeaons from the intergalactic giant biological quantal computing cloud by cometary and meteoric impacts.

This first symbiotic epoch derived from archaea generated from the extraterrestrial giant quantal computing intergalactic biological cloud would have led to life on earth, speciation and evolution of homo neanderthalis. The homo neanderthalic brain can be considered as a symbiotic biological quantal computing cloud archaeal colony. The neuronal cell itself can be considered as a symbiotic structure. The neuronal cell wall is formed of archaea, the cytoskeleton of the neuronal cell is formed of spirochetes, the nucleus by the pox virus, the mitochondria concerned with oxidative phosphorylation is formed of rickettsia prowazaki, the peroxisome is formed of acinetobactor aceti and the cytoplasmic glycolytic structures are formed by Chlamydia. The axons and dendrites which give synaptic connectivity is formed of spirochetes. The archaea are endosymbiotic and mutate into cellular organelle called archaeaons which can catabolize cholesterol, neuroidelle which can produce neurotransmitters by the shikimic acid pathway, vitaminocyte which can generate vitamin C, steroidelle which can generate digoxin producing neuro-immuno-endocrine integration, transmutoid which can produce biological transmutation, fructosoid involved in fructose metabolism and glycosaminoglycoid involved in connective tissue metabolism. The archaeaons become organelle of the cell. The actinidic or magnetotactic archaea which endosymbiose into the primitive cell is capable of quantal perception. The porphyrins generated by archaeal metabolism forms porphyrions which are also dipolar and magnetic and capable of quantal perception. Thus the human brain can be considered as a symbiotic quantal computing cloud network. The brain which is a symbiotic quantal computing cloud is in communication with the extraterrestrial giant quantal computing cloud in the interstellar space. This helps the human brain to assess its past, present and future in the myth of time under the guidance of the universal giant extraterrestrial quantal computing cloud. The interstellar bacteria and viruses forming the giant biological quantal computing cloud is in contact by quantal perception with human brain like biological symbiotic quantal computing clouds as well as the giant biological quantal computing clouds in other galaxies, star systems and planets. Thus there is constant interaction between different giant and small quantal computing biological clouds in intergalactic space as well as in planets and galaxies including the human brain. This is under the control of the protoconsciousness field and the gravity and antigravity fields which mediates conscious and unconscious mind. Meteorites, oumuamua and comets transfer cometary genes and interstellar genes throughout the universe and

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galaxies. The cometary genes and interstellar genes which are transported can modulate human brain function as exemplified by the generation of the species homo neanderthalis consequent to actinidic archaea endosymbiose. The transfer of extraterrestrial retroviruses would lead to symbiosis in the human brain and generation of the homo sapien species as the transfer of extraterrestrial covid 19 as well as global warming related actinidic archaeal growth leading to generation of homo neoneanderthalis or homo galacticus. Extraterrestrial alien visitations are common and are in the form of bacterial and viral intelligence. The interstellar magnetic field which is involved in the formation of stars and galaxies is formed of bacteria, viruses, and archaea and its biological.

The actinidic magnetotactic nanoarchaea and its secreted PAH organisms are extremophiles and survive in the interstellar space and can contribute to the interstellar grains and magnetic fields which play a role in the formation of the galaxies and star systems. The cosmic dust grains occupy the intergalactic space and are thought to be formed of magnetotactic bacteria identified according to their spectral signatures. According to the Hoyle's hypothesis, the cosmic dust magnetotactic bacteria play a role in the formation of the intergalactic magnetic field. A magnetic field equal in strength to about one millionth part of the magnetic field of earth exists throughout much of our galaxy. The magnetic files can be used to trace the spiral arms of the galaxy following a pattern of field lines that connect young stars and dust in which new stars are formed at a rapid rate. Studies have shown that a fraction of the dust particles have elongated shape similar to bacilli and they are systematically lined up in our galaxy. Moreover, the direction of alignment is such that the long axes of the dust tend to be at right angles to the direction of the galactic magnetic field at every point. Magnetotactic bacteria have the property to affect the degree of alignment that is observed. The fact that the magnetotactic bacteria appear to be connected to the magnetic field lines that thread through the spiral arms of the galaxy connecting one region of star formation to another support a role for them in star formation and in the mass distribution and rotation of stars. The nutrient supply for a population of interstellar bacteria comes from mass flows out of supernovas populating the galaxy. Giants arising in the evolution of such stars experience a phenomenon in which material containing nitrogen, carbon monoxide, hydrogen, helium, water and trace elements essential for life flows continuously outward into space. The interstellar bacteria need liquid water. Water exists only as vapour or solid in the interstellar space and only through star formation leading to associated planets and cometary bodies can there be access to liquid water. To control conditions leading to star formation is

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of paramount importance in cosmic biology. The rate of star formation is controlled by two factors. Too high a rate of star formation produces a destructive effect of UV radiation and destroys cosmic biology. Star formation as stated before produces water crucial for bacterial growth. Cosmic biology of magnetotactic bacteria and star formation are thus closely interlinked. Systems like solar systems do not arise in random condensation of blobs of interstellar gas. Only by a rigorous control of rotation of various parts of the system would galaxies and solar system evolved. The key to maintaining control over rotation seems to lie in the intergalactic magnetic field as indeed the whole phenomena of star formation. The intergalactic magnetic fields owes its origin to the lining up of magnetotactic bacteria and the cosmic biology of interstellar bacteria can prosper only by maintaining a firm grip on the interstellar magnetic field and hence on the rate of star formation and type of star system produced. This points to a cosmic intelligence or brain capable of computation, analysis and exploration of the universe at large- of magnetotactic bacterial networks. The origin of life on earth according to the Hoyle's hypothesis would be by seeding of bacteria from the outer intergalactic space. Comets carrying microorganisms would have interacted with the earth. A thin skin of graphitized material around a single bacteria or clumps of bacteria can shield the interior from destruction by UV light. The sudden surge and diversification of species of plants and animals and their equally sudden extinction has seen from fossil records point to sporadic evolution produced by induction of fresh cometary genes with the arrival of each major new crop of comets. The interstellar PAH aromatic organism is formed from nanoarchaeal cholesterol catabolism. The PAH and cholesterol are the interconvertible primal prebiotic molecules. PAH aromatic organism and nanoarchaeal magnetite can have a wave-particle existence and bridge the world of bosons and fermions. The nanoarchaea can form biofilms and the PAH aromatic organism can form a molecular quantum computing cloud in the biofilm which forms an interstellar intelligence regulating the formation of star systems and galaxies. The magnetite loaded nanoarchaeal biofilms and PAH aromatic organism quantal computing cloud can bridge the wave-particle world functioning as the anthropic observer sensing gravity which orchestrates the reduction of the quantal world of possibilities in to the macroscopic world. The actinide based nanoarchaea can regulate the earth's carbon cycle by methanogenesis, nitrogen cycle by ammonia oxidation and rain formation by contributing the seeding nucleus. The earth's temperature and global warming and cooling are regulated by nanoarchaeal synthesized PAH from cholesterol and methanogenesis. The increased nanoarchaeal growth in ocean beds and soil leads to increased methane production and movement of the earth's crust producing tsunamis and massive earthquake leading to

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catastrophic mass extinction. The eternal nanoarchaea survive and start the cycle of evolution once more. The actinide based nanoarchaea regulates the human system and biological universe.

The homo neanderthalis and homo sapien species evolved as basically visitations of extraterrestrial intelligence as archaeal and RNA viroidal colonies. The homo neanderthalis is an evolved archaeal colony network. The archaea extrudes RNA viroids. The homo sapien species is extraterrestrial RNA viroidal dominant with RNA viroids integrated into the genomic DNA. The organization of race and caste system in India points to such an origin. The homo neanderthalic species had an initial habitation in the Indian ocean continent which had a catastrophic extinction by archaeal expansion in the ocean crust which generated dangerous tsunamis during ice age. The Neanderthals migrated to the Eurasian landmass creating the civilization of Harappa, Sumeria and Egypt. They are the asuras of Rig veda. The homo neanderthalic species are fair, matrilineal, asexual, spiritual, altruistic and community organized. These civilizations were basically matrilineal and creative. They were paganistic, secular and atheistic. They were environmentally conscious living in quantal interaction with the world around creating a feeling of environmental spiritual consciousness. The society formed on this basis functioned as an organic whole in quantal interaction with one another. It was equal, just and functioned as primitive form of socialistic society. The homo neanderthalis species was essentially asexual with the gender equality and matrilinearity. The archaeal overgrowth consequent to global warming can lead to eventual neanderthalisation of the human species and brain. The brain neuronal cortex shrinks due to quantal perception of electromagnetic fields which pollute the globalized warm world. There is also consequent cerebellar hypertrophy. Cerebellar hypertrophy can lead on to schizophrenia and autistic modes of behaviour. Cerebellar hypertrophy can lead to cerebellar dysfunction and motor ataxia. The motor ataxia and the clumsiness of movement and speech would have lead to the evolution of abstract painting, dance, music, symbolic speech and eventually speech in the Neanderthals. The neanderthalisation of the human brain consequent to global warming leads to evolution of rock music, dance and modern forms of abstract painting. The Neanderthal brain owing to magnetite mediated increased quantal perception are more spiritual. The Neanderthal community owing to quantal perception functions as one single whole leading to altruism, spirituality, socialism, gender equality and eco-spirituality. This represents the civilisational mode of the eastern world. The societies emerged from the possible Lemurian landmass. As they evolved out of extraterrestrial archaeal colonies and intelligence their level

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of development and intelligence was high. They possessed the original language and the concept of a human godhead was developed first in their civilization. The Rig veda is the oldest spiritual book of humankind. Most of the gods described in Rig veda were of asuric origin even Varuna, the principal God. The major philosophical entities of Buddhism and Jainism which are basically atheistic religions preaching social equality, oneness and justice were evolved by the Asuras.

The quantal wave form or the Higgs field gives mass and energy to the particles like protons, neutrons and electrons when it interacts with it. The quantal wave forms can generate porphyrins. Porphyrins can have a macromolecular and wave existence which is interconvertible. The porphyrin arrays can self organize and self reproduce. The macromolecular porphyrin arrays would have functioned as intelligent organisms in the interstellar space. The iron porphyrins can undergo photooxidation and generate a magnetic field. The photonic interaction with the magnetic porphyrins can generate black holes which can collapse to a point before singular density. At this point of time, it can undergo rebounce producing new universes. The porphyrin organism with its quantal computing function served as the initial anthropomorphic observer or the lotus of Brahma. The porphyrins would have formed a template for RNA viroids and prions to form. This would have generated primitive archaeal forms. The primitive archaeal cell can extrude RNA viroids generating RNA viroidal clouds. The intergalactic magnetic field generated by the archaea and magnetic porphyrin organism would have contributed to the evolution of star systems and galaxies. The archaeal clouds and RNA viroidal clouds would have served as interstellar intelligence guiding the formation of star systems and galaxies and also functioning as anthropomorphic observers. The meteoritic impacts would have transferred the archaeal and RNA viroidal colonies to earth. They would have self-organized into plant and animal species as well as homo sapien and homo neanderthalic species. The homo neanderthalic species are archaeal dominant. The homo sapien species are RNA viroidal/retroviral dominant.

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The Big Bang cosmology postulates the evolution of the universe from the Higgs field. Higgs field is made up of Higgs Boson and top quarks. Higgs Boson can exists in two states. The stable state which is of high energy, low density compatible with the present existence of universe and the unstable state which is of low energy and high density. The universe is presently in the edge of the stable state. The low energy high density state is unstable and can cause catastrophic vacuum expansion leading to the end of the universe. The Frohlich model of quantal brain function postulates the existence of Bose-Einstein

condensates in the brain at normal temperature. There are dipolar magnetite and porphyrin molecules in the brain which in the context of membrane sodium-potassium ATPase inhibition can lead on to a pumped phonon system producing Bose-Einstein condensate and bosons in the brain. This boson can become unstable leading on to catastrophic vacuum collapse and the possible extinction of the universe. The Frohlich model of Bose-Einstein's condensate formed of magnetic dipolar porphyrins and archaeal magnetite in cellular lipid emulsions can interact with photons generating black holes. This black hole can collapse to singularity. But the collapse happens only upto a particular point following which the density or singularity undergoes a rebounce producing a new universe with a new set of universal constants. Thus the quantal model of brain function can lead on to the destruction and reproduction of universes. The brain can be considered to be a multicellular quantal computing archaeal network in the case of homo neanderthalis. The synaptic networks of the brain parallel the galactic networks of biological quantal computing cloud of the universe. The brain functions as the universal quantal computer and anthropomorphic observer creating and destroying as well as reproducing universes. This occurs to a lesser extent in the homo sapien brain.

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The homo neanderthalic society owing to increased quantal perception is spiritual and feels the oneness of the world and the godliness of individual human beings. This leads on to the philosophy of Buddhism with its sense of atheism and human values. Buddhism and Jainism as well as the Mauryan empire represents victory for the asuric Neanderthals or the Shudras. The Buddhist and Hindu society of neanderthalic world considered good and evil as part of the same quantal world representing the universal soul. The godhead and the fallen angel belong to the same quantal world of the universal soul. The concept of right and wrong are not absolute contraindications but part of the same quantal world. The quantal perception produces information storage after mortality and the idea of reincarnation. The increased world of quantal perception mediated oneness and the cholesterol catabolizing archaeal overgrowth leading to sex hormone deficiency produces the gender equal asexual world. Sexuality is not considered as something apart from religion as evidenced by the tantric schools of Hinduism and Buddhism. It was considered as a form of experiencing oneness as indicated by ideas such as Kundalini. The increased quantal perception leads to a feeling of oneness which produces universal unity. There is no war but universal peace. Eastern societies like China and India are basically quantal docile societies with war being uncommon. The major wars in Hindu history like the Mahabharata and Ramayana war were

those between the colonizing homo sapien devas and the native peaceful Neanderthals. The Pandava army were the homo sapien devas and the Kaurava army the neanderthalic natives. The God Rama was the head of homo sapien devas and the Ravana the leader of the native Neanderthals. The devas were the head of the colonizing homo sapiens from Europe. They could win the Mahabharata and Ramayana wars and the shudric neanderthalic native population was rendered to slavery for generation to come. The independence struggle and Gandhi's attitude to the lower caste and Harijans were a part of the same phenomena. The homo sapien world on the other hand due to reduced quantal perception was individualistic. Good and evil were absolutely different as the god and the fallen angel. There was no belief in reincarnation and sexuality was considered as taboo. The homo sapien society owing to its reduced quantal perception and individualistic nature discovered wars and slavery. Wars are essentially a feature of semitic societies and religion. The homo sapien devas are capitalistic and rightist in their attitude to society while the homo neanderthalis is communistic and socialistic. The war between capitalism and socialism is representative of that between Neanderthals and homo sapiens. The phenomena of global warming, archaeal overgrowth and neanderthalisation of homo sapiens will lead to a more peaceful, globalized, spiritual, gender equal and altruistic society. But the Neanderthal domination resulting from global warming can lead to the society's own demise.

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The phenomena of climate change and global warming leads on to archaeal multiplication and neanderthalisation of the human race. Archaeal growth occurs in extremes of climate– the ice age and in times of global warming. This results in a return to asuric culture and civilization with its spiritual, environmentally conscious, socialistic, asexual and group identity. The modern world is represented by the Kali yuga where the Shudras or the Neanderthals return to a position of power and global significance. This represents the rise of the asuric neanderthalic shudric slaves. This is represented by the rise of neanderthalic eastern societies of China and India as well as the decline of the homo sapien West and Africa. The neanderthalisation of homo sapiens due to archaeal growth can lead to human disease and eventual extinction. The archaea catabolizes cholesterol to generate digoxin. Digoxin functions as the neanderthalic hormone. Digoxin produces membrane sodium-potassium ATPase inhibition and increased intracellular calcium and reduced magnesium. Magnesium deficiency leads to mitochondrial dysfunction, vasospasm, dyslipidemia and metabolic syndrome x. The increase in intracellular calcium leads to oncogene activation and malignancies. The increase in intracellular calcium can activate NFKB leading to immune

activation and autoimmune disease. The increased intracellular calcium can activate the caspase cascade leading on to cell death and degenerations. The increase in intracellular calcium can increase synaptic release of monoamine neurotransmitters producing schizophrenia and autism. The increase in archaeal growth can produce the Warburg phenotype with increased glycolysis and mitochondrial dysfunction. The increased glycolysis can activate the lymphocyte producing autoimmune disease as lymphocytes are dependent on glycolysis for energy needs. The cancer cells also depend on glycolysis for energy needs. The Warburg phenotype can lead on to increase in malignancies. The Warburg phenotype and increased glycolysis can lead to polyribosylated glyceraldehyde 3-phosphate dehydrogenase mediated cell death and degeneration. The Warburg phenotype can lead to magnesium deficiency related insulin resistance and mitochondrial dysfunction leading to schizophrenia. Thus archaeal mediated hyperdigoxinemia and Warburg phenotype can lead to civilisational diseases in the Neanderthal phenotype leading on to its extinction. The archaeal overgrowth in the ocean crust owing to global warming can lead to release of large amounts of methane producing oceanic earthquakes, tsunamis and destruction and splitting up of continents. This leads on to the catastrophic end of the world. As also the archaeal porphyrin and magnetite mediated Frohlich model of Bose-Einstein's condensates in the brain generated bosons can undergo catastrophic vacuum decay leading to universal extinction. The magnetic dipolar porphyrins and magnetite in the lipid emulsion of brain cells can be photonically excited generating black holes. These black holes do not reach absolute singularity, but near that point can undergo a phenomenon called rebounce reproducing the universe. Thus the neanderthalisation of human brain and generation of Bose-Einstein condensate of the Frohlich model can lead to extinction and reproduction of the universe.

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The retrovirus would also have an extraterrestrial origin from the giant intergalactic biological quantal computing cloud and the cometary retroviral genes reached the earth via meteoric and cometary impacts. This second symbiotic epoch would have led to the evolution of homo sapiens. The interstellar space is filled with star dust which is postulated to be of biological origin. Fred Hoyle in his hypothesis of the life cloud has put forward an extraterrestrial origin for life on earth. The existence of an extraterrestrial force controlling the genesis and evolution of life on earth has been put forward by many authors. The biocosm theory postulates that the conditions in the universe have been so adjusted to make it possible for life to exist on earth and the universe. This leads to the postulate that the universe exists and reproduces because of life which acts as a quantal observer. This paper deals with the

role of extremophilic archaea and RNA viroids from extracellular space or extruded from the archaeal cells as primitive anthropomorphic observers making it possible for the universe to exists and evolve. The human race is divided into two species homo sapiens and homo neanderthalis. The homo neanderthalis interbred with homo sapiens to produce a hybrid species. Therefore, there are species with more of neanderthalic origin and homo sapien species in earth. The previous studies have demonstrated matrilineal societies with more of neandethalic origin in contrast to patrilineal societies. The origin of neanderthalic societies and homo sapien communities was ascribed to symbiosis. The Neanderthal species has more of extremophilic archaeal symbiosis occurring in the extremes of climate like the ice age and global warming. The homo sapien species has more of intragenomic RNA viroid/retroviral symbiosis which contribute to the dynamicity of the homo sapien genome. The Neanderthal species were retroviral resistant. The origin of the archaea and the RNA viroids are possibly from the interstellar space as archaeal clouds and RNA viroidal quantal computing clouds which function as extraterrestrial intelligence. The RNA viroids are extruded by archaeal cells. They would have reached the earth via meteoroidal impacts and seeded life on earth. The archaeal colonies would have organized into the homo neanderthalic species in Eurasia and RNA viroidal colonies or retroviral colonies would have led to the evolution of homo sapien species in Africa.

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The retrovirus would have come down via meteoritic and cometic impacts on to the earth. The retrovirus would have formed in the giant quantal computing porphyrinogenic intergalactic cloud. Retroviruses can infect multicellular organisms producing an infection. The seeding of retroviruses would have led to the killing of homo neanderthalis and remnant homo neanderthalis would have remained in protective enclaves and South India, Iberian Peninsula, Northern Europe and Siberia. The retroviral pandemic of extraterrestrial origin would have changed the homo neanderthalis species to the homo sapien species. The homo neanderthalis species endosymbiotic archaea lack retroviruses and only a few have been described in extremophilic archaea. The arc gene serves as the master regulator that determines how neuronal synapses forms in the brain. Arc behaves like viruses and has the ancestery in retroviruses. The arc gene moulds and sculpts the brain connections making human think as humans and monkeys as monkeys. These processes underly brain in phenomena ranging from classical operant conditioning in humans to human cognition and recognition of self. Classical operant conditioning is a form of behavioural learning. If the arc gene is absent the brain development is jeoparadised. Patients without arc gene become

autistic. Mice without arc gene can not learn new knowledge due to faulty synaptic connections in the brain. The arc gene negative mice do not remember anything. This leads us to the question whether memory is a virus? The arc gene is equivalent to the gag gene of the retroviruses including HIV and lenti viruses. Gag retroelement retroposons during evolution mediate intercellular communication in the nervous system. Retroelements are known as jumping genes and are capable of integration into the genome of other organisms. Most complicated physiological functions have evolved due to retroelements– placentation and the human brain. The arc is present in land animals and not in marine animals. The land animal have to adapt and needed a most smart and plastic brain. Arc gene contributes to plasticity. The arc gene carries information which in action has to be passed off one neuron to another through neuronal synapses so that they know where to connect. This information is called mRNA that instructs the neuron what to do. Upon receiving the arc mRNA the neuron does something unseen in mRNA of other proteins. The arc mRNA gives instructions for building of capsids that give the outer shell of the virus. The capsid enables the arc gene safely move around the extracellular space and enter into another neuron passing on its arc mRNA. The receiving neuron also does the same. All neuronal connections form one synapse after another in this manner. Arc genes activity in the brain is similar to the viral infection of the brain. Virus makes protective capsids around it to move around and infect other cells. It resembles how the virus integrates the genetic elements into the infected cells. It resembles how virus instructs infected cells to make more copies of the same virus. Arc gene via capsid formation functions exactly like a viral infection of the cell. Infected neurons receive instructions from synapsis. The picture is similar to HIV infection of the human brain. Thus the extraterrestrial retroviruses which infected and exterminated the homo neanderthalic population except in certain enclaves produce changes in the surviving homo neanderthalis which became homo sapiens consequent to retroviral modulation of brain synaptic connections. The extraterrestrial retrovirus which infected the human homo neanderthalic population producing a disease and creating survival of the host was the basis of homo sapien evolution. The retrovirus increased the dynamicity and flexibility of the human synaptic connections and led to the evolution of the human dominant cerebral cortex the site for reasoning, logic and civil society. The retroviruses made us human. The mRNA has the capability to store genetic information. The transfer RNA and ribosomal RNA have the ability to transmit genetic information to proteins. RNA can act as their own enzymes to self edit their own genetic code. RNA has great capabilities as genetic molecule and can control things on its own creating the primitive RNA world. The retroviruses modulated the primitive

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homo sapiens following an extraterrestrial RNA retroviral pandemic. Later on for stability double stranded RNA and RNA/DNA hybrids were created. Thus the extraterrestrial retroviral pandemic which came via meteoric and cometic impacts from the interstellar giant quantal computing cloud wiped out the homo neanderthalis except in few enclaves and led to the evolution of the human cerebral cortex and domination of homo sapiens on earth. Retroviral infections have been detected in hundreds of humans and they have become negative without treatment. Human HIV infection is due to expression of the human endogenous retroviral parts of the genome in the non-coding region which got integrated into the human genome during the retroviral pandemic with its origin in the extraterrestrial quantal computing cloud. The human endogenous retroviral particles that gets expressed due to stress and free radical attack. This can get encapsulated in human cell membranes producing viral particles which have a gag gene akin to the arc gene involved in sculpting synapses. The human generated HERV vesicles behave like HIV virus and HIV infection is endogenous in origin. Human generated HERV vesicles are involved in normal structuring and sculpting of synapses in the brain.

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The homo sapiens evolved in Africa and migrated to the Eurasian landmass. They had basically an RNA viroidal symbiosis in the brain which gave rise to a practical less creative brain. The homo sapien species are patrilineal, commonsensical and individualistic. The homo sapien community forms the Devas of the vedic literature and the Rig veda describes clashes and wars between the asuric inhabitants of Harappa and the invading devas. They over ran the neanderthalic civilizations and created a racial society with the homo sapiens as the ruling class and the Neanderthals as the under caste of Shudras. The Shudras formed the discriminated underbelly of the civilization. The literature, language and holy books of the asuras were taken over by the uncivilized homo sapienic devas who made it into their own. The future generations of Shudras were prevented from learning their language and worshiping their Gods which were taken over by the homo sapienic devas. The homo sapienic devas were theistic, individualistic, unaltruistic and had no communal or societal consciousness. This signifies the civilisational mode of the western world. The archaeal growth in homo sapiens is less. This leads on to less of magnetite mediated quantal perception and universal oneness. This contributes to the individuality, selfishness, unaltruistic behavior, unbridled capitalism and the patriarchal gender unequal society of the homo sapien world.

The second possibility is that life on earth would have evolved abiogenetically on metal actinide surfaces with cholesterol as the primitive prebiotic molecule. Metal actinides in beach sands have been postulated to play a role in abiogenesis. Actinide mineral like rutile, monazite and illmenite by surface metabolism would have contributed to abiogenesis. A hypothesis of cholesterol as the primal prebiotic molecule synthesized on actinide surfaces with all other biomolecules arising from it and a self replicating cholesterol lipid organism as the initial life form is presented. The actinidic archaea and viroids would have evolved from the primitive isoprenoid organism. The origin of viruses, prokaryotes, eukaryotes, primates and humans from the initial isoprenoid organism derived actinidic archaea is postulated. The following groups were included in the study: endomyocardial fibrosis, Alzheimer's disease, multiple sclerosis, non-Hodgkin's lymphoma, metabolic syndrome x with cerebrovascular thrombosis and coronary artery disease, schizophrenia, autism, seizure disorder, Creutzfeldt-Jakob's disease and acquired immunodeficiency syndrome. There were 10 patients in each group and each patient had an age and sex matched healthy control selected randomly from the general population. The blood samples were drawn in the fasting state before treatment was initiated. Plasma from fasting heparinised blood was used and the experimental protocol was as follows: (I) Plasma+phosphate buffered saline, (II) same as I+cholesterol substrate, (III) same as II+rutile 0.1 mg/ml, (IV) same as II+ciprofloxacine and doxycycline each in a concentration of 1 mg/ml. Cholesterol substrate was prepared as described by Richmond. Aliquots were withdrawn at zero time immediately after mixing and after incubation at 37 ^{o}C for 1 hour. The following estimations were carried out:- Cytochrome F420, free RNA, free DNA, muramic acid, polycyclic aromatic hydrocarbon, hydrogen peroxide, serotonin, pyruvate, ammonia, glutamate, cytochrome C, hexokinase, ATP synthase, HMG CoA reductase, digoxin and bile acids. Cytochrome F420 was estimated flourimetrically (excitation wavelength 420 nm and emission wavelength 520 nm). Polycyclic aromatic hydrocarbon was estimated by measuring hydrogen peroxide liberated by using glucose reagent. The statistical analysis was done by ANOVA.The parameters checked as indicated above were:- cytochrome F420, free RNA, free DNA, muramic acid, polycyclic aromatic hydrocarbon, hydrogen peroxide, serotonin, pyruvate, ammonia, glutamate, cytochrome C, hexokinase, ATP synthase, HMG CoA reductase, digoxin and bile acids. Plasma of control subjects showed increased levels of the above mentioned parameters with after incubation for 1 hour and addition of cholesterol substrate resulted in still further significant increase in these parameters. The plasma of patients showed similar results but the extent of increase was more. The addition of antibiotics to the control plasma caused a decrease in all the parameters

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while addition of rutile increased their levels. The addition of antibiotics to the patient's plasma caused a decrease in all the parameters while addition of rutile increased their levels but the extent of change was more in patient's sera as compared to controls. The results are expressed as percentage change in the parameters after 1 hour incubation as compared to the values at zero time. There was increase in cytochrome F420 indicating archaeal growth. The archaea can synthesize and use cholesterol as a carbon and energy source[1]. The archaeal origin of the enzyme activities was indicated by antibiotic induced suppression. The study indicates the presence of actinide based archaea with an alternate actinide based enzymes or metalloenzymes in the system as indicated by rutile induced increase in enzyme activities. There was also an increase in archaeal HMG CoA reductase activity indicating increased cholesterol synthesis by the archaeal mevalonate pathway. The archaeal beta hydroxyl steroid dehydrogenase activity indicating digoxin synthesis and archaeal cholesterol hydroxylase activity indicating bile acid synthesis were increased. The archaeal cholesterol oxidase activity was increased resulting in generation of pyruvate and hydrogen peroxide. The pyruvate gets converted to glutamate and ammonia by the GABA shunt pathway. The archaeal aromatization of cholesterol generating PAH, serotonin and dopamine was also detected. The archaeal glycolytic hexokinase activity and archaeal extracellular ATP synthase activity were increased. The archaea can undergo magnetite and calcium carbonate mineralization and can exist as calcified nanoforms

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Life on earth would also have evolved abiogenetically on actinide surfaces. The metal actinides provide radiolytic energy, catalysis for oligomer formation and provide a coordinating ion for metalloenzymes all important in abiogenesis. The metal actinide surfaces would by surface metabolism generate acetate which could get converted to acetyl CoA and then to cholesterol which functions as the primal prebiotic molecule self organizing into self replicating supramolecular systems, the lipid organism. Cholesterol by radiolysis by actinides would have formed PAH generating PAH aromatic organism. Cholesterol radiolysis would generate pyruvate which would get converted to amino acids, sugars, nucleotides, porphyrins, fatty acids and TCA acids. Anastase and rutile surfaces can produce polymerization of amino acids, isoprenyl residues, PAH and nucleotides to generate the initial lipid organism, PAH organism, prions and RNA viroids which would have symbiosed to generate the archaeal protocell. The archaea evolved into gram negative and gram positive bacteria with a mevalonate pathway which had an evolutionary advantage. The symbiosis of archaea with gram negative organism generated the eukaryotic cell. The data supports the persistence of an

actinide and cholesterol based shadow biosphere which throws light on the actinide based origin of life and cholesterol as the premier prebiotic molecule.

There was an increase in free RNA indicating self replicating RNA viroids and free DNA indicating generation of viroid complementary DNA strands by archaeal reverse transcriptase activity. The actinides modulate RNA folding and catalyse its ribozymal action. Digoxin can cut and paste the viroidal strands by modulating RNA splicing generating RNA viroidal diversity. The viroids are evolutionarily escaped archaeal group I introns which have retrotransposition and self splicing qualities. Archaeal pyruvate can produce histone deacetylase inhibition resulting in endogenous retroviral (HERV) reverse transcriptase and integrase expression. This can integrate the RNA viroidal complementary DNA into the non-coding region of eukaryotic non-coding DNA using HERV integrase as has been described for borna and ebola viruses. The non-coding DNA is lengthened by integrating RNA viroidal complementary DNA with the integration going on as a continuing event. The archaea genome can also get integrated into human genome using integrase as has been described for trypanosomes. The integrated viroids and archaea can undergo vertical transmission and can exist as genomic parasites. This increases the length and alters the grammar of the non-coding region producing memes or memory of acquired characters. The viroidal complementary DNA can function as jumping genes producing a dynamic genome.

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The presence of muramic acid, HMG CoA reductase and cholesterol oxidase activity inhibited by antibiotics indicates the presence of bacteria with mevalonate pathway. The bacterial with mevalonate pathway include streptococcus, staphylococcus, actinomycetes, listeria, coxiella and borrelia. The bacteria and archaea with mevalonate pathway and cholesterol catabolism had an evolutionarily advantage and constitutes the isoprenoidal clade organism. The archaea evolved into mevalonate pathway gram positive and gram negative isoprenoid clade organism through horizontal gene transfer of viroidal and virus genes. The isoprenoidal clade prokaryotes develop into other groups of prokaryotes via viroidal/virus as well as eukaryotic horizontal gene transfer producing bacterial speciation. The RNA viroids and its complementary DNA developed into cholesterol enveloped RNA and DNA viruses like herpes, retrovirus, influenza virus, borna virus, cytomegalo virus and epstein barr virus by recombining with eukaryotic and human genes resulting in viral speciation. Bacterial and viral species are ill-defined and fuzzy with all of them forming one common genetic pool with frequent horizontal gene transfer and recombination. Thus the archaea would have evolved into prokaryotes and eukaryotes as well as given origin to the various viruses.

Thus the multi and unicellular eukaryote with its genes serves the purpose of prokaryotic and viral speciation. The multicellular eukaryote developed so that their endosymbiotic archaeal colonies could survive and forage better .The multicellular eukaryotes are like bacterial biofilms. The archaea and bacteria with a mevalonate pathway uses the extracellular RNA viroids and DNA viroids for quorum sensing and in the generation of symbiotic biofilm like structures which develop into multicellular eukaryotes. The endosymbiotic archaea and bacteria with mevalonate pathway still uses the RNA viroids and DNA viroids for the regulation of multicellular eukaryote. An actinide dependent shadow biosphere of archaea and viroids in the above mentioned disease states is described. Metal actinides in beach sands have been postulated to play a role in abiogenesis. Cholesterol is the primal prebiotic molecule synthesized on actinide surfaces with all other biomolecules arising from it. A self replicating cholesterol lipid organism could be the initial life form. A cholesterol based abiogenesis is a more likely evolutionary option and the actinidic archaea and viroids would have evolved from it. The origin of viruses, prokaryotes, eukaryotes, primates and humans from the initial isoprenoid organism derived actinidic archaea is discussed. This multicellular eukaryote would have evolved into animals, plants, and human species especially homo neanderthalis. The homo neanderthalis was characterized by endosymbiotic archaea.

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The covid 19 virus would also have its origin in the giant intergalactic biological quantal computing cloud and has reached the earth by cometary or meteoric impacts. The covid 19 virus as impacted and infected the majority of the world population. The corona virus is possibly an extraterrestrial virus which came into earth following a meteoric impact in Wuhan region of China and circulates in the stratosphere of earth directed by winds in the latitudinal region N 40-70. The universe is biological in origin. The metal actinides provide radiolytic energy, catalysis for oligomer formation and provide a coordinating ion for metalloenzymes all important in abiogenesis. The metal actinide surfaces would by surface metabolism generate porphyrins from simple compounds like succinic acid and glycine. Porphyrins can exist as wave forms and particulate forms and can bridge the dividing line between the quantal world and particulate world. Porphyrin molecules can self organize into organisms with energy transduction, ATP synthesis and information storage with replicating capacity. A self replicating porphyrin microorganism may have played a role in the origin of life. Porphyrins can form templates on which macromolecules like polysaccharides, protein and nucleic acids can form. The macromolecules generated on actinidic porphyrins templates

would have contributed to the actinidic nanoarchaea and the original organisms on earth. The data supports the persistence of an actinidic archaeal shadow biosphere which throws light on the actinide based origin of life and porphyrins as the premier prebiotic molecule.

Porphyrins play an important role in the genesis of the biological universe. The porphyrin macroarrays can form in the interstellar space on its own as porphyrins can exist both as particles and waves. Porphyrins form the bridging connection between the quantal world and the particulate world. The self generated porphyrins from the quantal foam can self organize to form macroarrays, can store information and self replicate. This can be called as an abiotic porphyrin organism. The porphyrin template would have generated nucleic acids, proteins, polysaccharides and isoprenoids. This would have generated actinidic nanoarchaea in the interstellar space. The porphyrins have magnetic properties and the interstellar porphyrin organism can contribute to the interstellar grains and interstellar magnetic fields.[37] The cosmic dust grains of porphyrin macroarrays/nanoarchaeal organism occupy the intergalactic space and are thought to be formed of magnetotactic bacteria identified according to their spectral signatures. According to the Hoyle's hypothesis, the cosmic dust magnetotactic porphyrin macroarrays/nanoarchaeal organism plays a role in the formation of the intergalactic magnetic field. A magnetic field equal in strength to about one millionth part of the magnetic field of earth exists throughout much of our galaxy. The magnetic files can be used to trace the spiral arms of the galaxy following a pattern of field lines that connect young stars and dust in which new stars are formed at a rapid rate. Studies have shown that a fraction of the dust particles have elongated shape similar to bacilli and they are systematically lined up in our galaxy. Moreover, the direction of alignment is such that the long axes of the dust tend to be at right angles to the direction of the galactic magnetic field at every point. Magnetotactic porphyrin macroarrays/nanoarchaeal organisms have the property to affect the degree of alignment that is observed. The fact that the magnetotactic porphyrin macroarrays/nanoarchaeal organisms appear to be connected to the magnetic field lines that thread through the spiral arms of the galaxy connecting one region of star formation to another support a role for them in star formation and in the mass distribution and rotation of stars. The nutrient supply for a population of interstellar porphyrin macroarrays/nanoarchaeal organisms comes from mass flows out of supernovas populating the galaxy. Giants arising in the evolution of such stars experience a phenomenon in which material containing nitrogen, carbon monoxide, hydrogen, helium, water and trace elements essential for life flows continuously outward into space. The interstellar organisms need liquid water. Water exists

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only as vapour or solid in the interstellar space and only through star formation leading to associated planets and cometary bodies can there be access to liquid water. To control conditions leading to star formation is of paramount importance in cosmic biology. The rate of star formation is controlled by two factors. Too high a rate of star formation produces a destructive effect of UV radiation and destroys cosmic biology. Star formation as stated before produces water crucial for organism growth. Cosmic biology of magnetotactic organisms and star formation are thus closely interlinked. Systems like solar systems do not arise in random condensation of blobs of interstellar gas. Only by a rigorous control of rotation of various parts of the system would galaxies and solar system evolved. The key to maintaining control over rotation seems to lie in the intergalactic magnetic field as indeed the whole phenomena of star formation. The intergalactic magnetic fields owes its origin to the lining up of magnetotactic porphyrin macroarrays/nanoarchaeal organisms and the cosmic biology of interstellar organisms can prosper only by maintaining a firm grip on the interstellar magnetic field and hence on the rate of star formation and type of star system produced. This points to a cosmic intelligence or brain capable of computation, analysis and exploration of the universe at large- of magnetotactic porphyrin macroarrays/nanoarchaeal organism networks. The origin of life on earth according to the Hoyle's hypothesis would be by seeding of porphyrin macroarrays/nanoarchaeal organism from the outer intergalactic space. The porphyrin organism can also be generated on actinidic surfaces in earth. Comets carrying porphyrin organisms would have interacted with the earth. A thin skin of graphitized material around a single porphyrin macroarrays/nanoarchaeal organism or clumps of organism can shield the interior from destruction by UV light. The sudden surge and diversification of species of plants and animals and their equally sudden extinction has seen from fossil records point to sporadic evolution produced by induction of fresh cometary genes with the arrival of each major new crop of comets. The porphyrin macroarrays organism can have a wave-particle existence and bridge the world of bosons and fermions. The porphyrin macroarrays/nanoarchaeal organism can form biofilms and the porphyrin organism can form a molecular quantum computing cloud in the biofilm which forms an interstellar intelligence regulating the formation of star systems and galaxies. The porphyrin macroarrays/nanoarchaeal organism quantal computing cloud can bridge the wave particle world functioning as the anthropic observer sensing gravity which orchestrates the reduction of the quantal world of possibilities in to the macroscopic world. The actinide based porphyrin macroarrays/nanoarchaeal organism regulates the human system and biological universe.

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Porphyrins also have evolutionary significance since porphyria is related to Scythian races and contributes to the behavioural and intellectual characteristics of this group of population. Porphyrins can intercalate into DNA and produce HERV expression. HERV RNA can get converted to DNA by reverse transcriptase which can get integrated into DNA by integrase. This tends to increase the length of the non-coding region of the DNA. The increase in non-coding region of the DNA is involved in primate and human evolution. Thus, increased rates of porphyrin synthesis would correlate with increase in non-coding DNA length. The alteration in the length of the non-coding region of the DNA contributes to the dynamic nature of the genome. Thus genetic and acquired porphyrias can lead to alteration in the non-coding region of the genome. The alteration of the length of the non-coding region of the DNA contributes to the racial and individual differences in populations. An increased length of non-coding region as well as increased porphyrin synthesis leads to increased cognitive and creative neuronal function. Porphyrins are involved in quantal perception and regulation of the thalamo-cortico-thalamic pathway of conscious perception. Thus genetic and acquired porphyrias contribute to higher cognitive and creative capacity of certain races. Porphyrias are common among Eurasian Scythian races who have assumed leadership roles in communities and groups. Porphyrins have contributed to human and primate evolution.[3,4]

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The dipolar porphyrins, PAH and archaeal magnetite in the setting of digoxin induced sodium-potassium ATPase inhibition can produce a pumped phonon system mediated Frohlich model superconducting state inducing quantal perception with nanoarchaeal sensed gravity producing the orchestrated reduction of the quantal possibilities to the macroscopic world. ALA can produce sodium-potassium ATPase inhibition resulting in a pumped phonon system mediated quantal state involving dipolar porphyrins. Porphyrins by autooxidation can generate biophotons and are involved in quantal perception. Biophotons can mediate quantal perception. Cellular porphyrins photooxidation are involved in sensing of earth magnetic fields and low level biomagnetic fields. Porphyrins can thus contribute to quantal perception. Low level electromagnetic fields and light can induce porphyrin synthesis. Low level EMF can produce ferrochelatase inhibition as well as heme oxygenase induction contributing to heme depletion, ALA synthase induction and increased porphyrin synthesis. Light also induces ALA synthase and porphyrin synthesis. The increased porphyrin synthesized can contribute to increased quantal perception and can modulate conscious perception. The porphyrin induced biophotons and quantal fields can modulate the source from which low level EMF and photic fields were generated. Thus the porphyrin generated

by extraneous low level EMF and photic fields can interact with the source of low level EMF and photic fields modulating it. Thus porphyrins can serve as a bridge between the human brain and the source of low level EMF and photic fields. This serves as a mode of communication between the human brain and EMF storage devices like internet. The porphyrins can also serve as the source of communication with the environment. Environmental EMF and chemicals produce heme oxygenase induction and heme depletion increasing porphyrin synthesis, quantal perception and two-way communication. Thus induction of porphyrin synthesis can serve as a mechanism of communication between human brain and the environment by extrasensory perception. The porphyrions are self replicating supramolecular organisms which forms the precursor template on which the viroids, prions and nanoarchaea originate. Stress induced template directed abiogenesis of porphyrions, prions, viroids and archaea is a continuous process and can contribute to changes in brain structure and behavior as well as disease process.

Life in earth would have evolved by seeding of viroids and archaea from the outer space consequent to asteroidal hits. The universe would have a biological origin and it is plausible that is there extraterrestrial intelligence in the form of a quantal computing cloud formed of archaea, viroids and porphyrions controlling and creating the universe. This could be considered as a biological god. The quantal computing cloud in the intergalactic space made up of archaea, viroids and porphyrions can seed organisms into the earth off and all through asteroidal impacting infusing a fresh set of genes into the planet and regulating the planet organization and function. The evolution of life and species on earth would have occurred by the phenomenon of panspermia. The various pandemics that occurred in the various phases of the history of the earth would have an extraterrestrial source. The theory of panspermia has been widely propagated by the astronomer Fred Holye in recent times. Holye also postulated a microbiological origin of the universe formed of intergalactic magnetic fields generated by bacteria. The pandemics occurring in earth at recurrent periods of time would be generated by the extraterrestrial quantal computing biological cloud due to asteroidal impacts. The asteroidal impacts have been described before the Spanish flu pandemic of 1915. Wickramasinghe has claimed that the corona virus came from space by meteor and the prevailing winds are spreading the disease to the hardest hit countries. The virus has spread by the prevailing winds along a global band about 40-60^{o} N latitude. A meteor was seen as a blazing fireball flying across sky north-east of China in October 2019. The cornoa virus outbreak occurred in the same region as China as the fireball was fallen. He

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belives that the meteor contained embedded within it the nCoV virus particles that survived the interior of the incandescent meteor. Infectious agents are present in space carried on comets and can fall towards the earth to the troposphere. They bring about human epidemics and pandemics. The seeding of the earth by the extraterrestrial quantal computing biological cloud can be a deliberate act to regulate the organization and functioning of the earth. It could be a form of contact with an extraterrestrial alien which could be hostile or friendly. The extraterrestrial quantal computing biological cloud can produce seeding of archaea and viroids generating changes in society. It can produce changes in the human species and neanderthalisation, generates asexual phenotypes and autistic phenotypes. The extraterrestrial quantal computing biological cloud can create a surrealistic, syntheistic quantal perceptive and spiritual brain. This can also be lead on to globalization and anarchy. Extraterrestrial quantal computing biological intelligence can thus modulate the structure of society on earth. The archaeal endosymbiosis induced by the extraterrestrial quantal computing biological cloud can generate a homo galacticus species capable of surviving in extraterrestrial environment and communicating by extrasensory quantal perception. This can lead to the evolution of a galactic civilization and intergalactic communication modulated by the extraterrestrial quantal computing biological cloud of porphyrions, archaea and viroids.

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The Fermi paradox says that there are inhabitory planetary systems in different galaxies and it is paradoxical that human beings are not come into contact with alien intelligence. The Drake equation helps us to calculate the number of intelligent civilizations in different galaxies of the universe. The intergalactic archaeal quantal computing clouds serves as the master of the universe and as the ubiquitous universal observer. The quantal computing archaeal clouds seed life in different planetary systems of galaxies. The universe can exist in the particulate and quantal state with swings between the two states determined by the master archaeal quantal computing cloud which functions as ubiquitous observer and intelligence controlling, creating and regulating the universe. Each civilization has a particulate and quantal counterpart. The particulate part of the civilization is not sensed by another civilization. The quantal computing cloud serving as the master intelligence is a universal observer and prevents particulate civilizations from coming to contact. There is a permanence of the quantal universe. The quantal civilizations inhabiting multiverses are in contact with each other through worm holes.

Every civilization is a dark forest. Every civilizations aim is to survive. Contact with another civilization results in annihilation. Civilizations hide their signals. Just like animals

and hunters in the forest. Paranoid and suspicious about intentions. Finite resources in universe. Each civilization seeks to expand. Galactic civilizations are like the dark forest and hide from each other for the fear of mutual annihilation. Therefore contact with other galactic civilizations is an impossibility. The civilization in earth would have by its technological advances, galactic travels and radiation sources penetrated the dark forest and came into contact with the extraterrestrial quantal computing cloud serving as the master intelligence and universal observer creating the observed world.

Gravity is related to consciousness which is structured in the cerebral cortex and antigravity to unconsciousness which is structured in the cerebellum. Quantal computing involving topological superconductivity can make use of cubits of graviton and antigraviton which can lead on to the creation of a universal quantal computing cloud- the supercomputer God. Panpsychism considers the universe as conscious and consciousness as an intrinsic feature of all subatomic particles, living things and non-living things. This gives continuity between the quantal world of existence and macroscopic world. The quantal superpositions collapse or undergo decoherance due to the observation of universal protoconsciousness field. The universal protoconsciousness field can be considered as gravity and antigravity. The universal protoconsciousness field permeates the whole galaxy and is intrinsic to all matter. Matter is a creation of consciousness. Extraterrestrial intelligence can exist as a superorganism controlling and creating the universe. A network of extraterrestrial porphyrin molecules or porphyrions fits in well with this concept. Porphyrins have got a wave-particle existence and can arise from the quantal foam of gravitational waves and anti-gravitational waves which creates human consciousness and unconsciousness respectively. This can form a quantal computing God cloud of porphyrions with quantal computing involving topological superconductivity can make use of cubits of graviton and antigraviton.

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Extraterrestrial intelligence can exist as a superorganism controlling and creating the universe. In this regard the concept of black cloud of gaseous extraterrestrial superorganism put forward by Fred Hoyle is significant. The black clouds of interstellar gas are made up of hydrogen. There are small pieces of solid matter at the centre and are linked to form a complex neurological system. Clouds have the capacity to increase the brain size and complexity and become intelligent. A network of extraterrestrial porphyrin molecules fits in well with this concept. Porphyrins have got a wave-particle existence and can arise from the quantal foam of gravitational waves and anti-gravitational waves which creates human consciousness and unconsciousness respectively. A large organized self-replicating

information system of porphyrins can function as an extraterrestrial intelligent organism. The intelligent black cloud when it finds a lifeless interstellar cloud creates simple brain system by transfer to the lifeless cloud. This gives a lifeless cloud life and intelligence. Black clouds never disappear, never age and never reproduce. Black clouds can communicate with other black clouds by radio wave brain waves. Black clouds need star light to metabolize chemical substances. The porphyrin arrays can utilize light to self-replicate and propagate. Being clouds of gas the superorganism can assume any shape. When the food supplies of the black cloud in the interstellar space falls the black cloud approaches a star and assumes a disc-like shape to absorb energy from the star. The cloud has to leave the star within a short span of time or it will condense to become the planet of the star. This can be compared to the molecular quantum computing clouds of Tamulis. These are massive immobile extraterrestrial intelligence which sprawls and stretches for hundreds and thousands of miles in the interstellar space. They can be compared with group of neurons which are interconnected. Each node in the network is a brain. This gaseous extraterrestrial intelligence can arise from an emission nebula. An emission nebula is one of the huge clouds of gas and dust that floats around in the interstellar space. In this could chemical molecules of life carbon monoxide, formaldehyde, methanol, hydrogen sulphide, sulphur oxide, sulphur dioxide and hydrogen cyanide are seen. Life arises in this interstellar chemical cloud of gas. Porphyrins arrives which can self-replicate can arise in this chemical interstellar clouds. This creates a superorganism which can form superintelligence. The interstellar gas is mostly made up of hydrogen. The higher dense regions of the interstellar gas can condense to form stars and planets. The coldest clouds form low mass stars and giant molecular clouds forms large mass stars. This form of gaseous extraterrestrial intelligence is seen in atmospheres of other planets in the cloudy organic molecular atmosphere and interstellar space. This fits in with the concepts of human evolution in earth where the protoplasmic body can get converted to the robotic body and then the energy body. The cool or hot interstellar gas can generate networks of extremophilic archaea which can survive on carbon dioxide and hydrogen. They are called the halophilic archaea or the methanogenic archaea. They can live in extremes of cold, heat, acid and pressure. The porphyrin network can form a template for the generation of viroids and prions which can symbioze together to form an archaeal and huge extraterrestrial interstellar gas archaeal network with intelligence can arise. This can condense to generate stars and planets as well as evolving life in planetary systems. The archaeal networks are capable of nuclear fusion and fission reaction and can power star systems like the sun. It is extremely plausible that extraterrestrial intelligence is an interstellar

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archaeal colony network arising abiogenically on porphyrin templates which can be generated sui generis from the quantal foam of gravitational waves and anti-gravitational waves. The interstellar dust forms stars and planets and the magnetotactic archaea generated intergalactic magnetic fields plays a role in the generation of star and planetary systems. The giant molecular porphyrin clouds and archaeal networks are extraterrestrial intelligence that plays a crucial role in star formation and formation of planetary systems. The extraterrestrial intelligence porphyrin network and archaeal network can communicate with any part of the universe by the phenomena of quantal entanglement. Interstellar gas is formed of grains of calcified nanoarchaea. Tamulis has postulated molecular quantal computing clouds that absorb magnetic and light emissions from planet and stars, compute information and move in space by using light pressure. The clouds use photoactive molecules for molecular quantal computing. They can convert light emissions to magnetic flops. The magnetic flops interact and control the central generating elements of 10 quantum bits of the molecular quantum computing clouds. Such clouds can exist in a coherent state at low temperature of the interstellar gas. Porphyrin networks are photoactive molecules and can generate molecular quantal computing clouds which can absorb magnetic and light emissions from planet and stars, compute information and move in space by using light pressure. The porphyrin networks can abiogenically generate archaeal bacterial massive extraterrestrial network intelligence. This formless mass living in space obtains its energy from the light of the stars and communicates with itself and other forms of lights by radio waves. The interstellar gas is analogous to blood, the heard and kidneys are electromagnetic and there is a complex neurological system of the brain. This cloud of interstellar gas porphyrin networks and archaeal colonies can convert into stars and planetary system by condensation. The energetics for star systems comes from biological fusion and fission reaction occurring in archaeal networks. The archaeal networks of extraterrestrial intelligence can engineer changes in human mind and civilization.

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The extraterrestrial intelligence is an archaeal colony network. It arises on porphyrins which are generated sui generis on the quantal form. The porphyrin networks can self-replicate and can form a template for the formation of viroids and prions. The archaeal colony networks are extremophilic networks and can survive in the environment of extreme climates of Mars and Venus as well as in interstellar gas. The extremophilic archaeal extraterrestrial network can secrete RNA viroids which form RNA viroidal quasi-species consortia. The RNA viroidal quasi-species consortia can be edited by archaeal digoxin giving identity and

specialization to the network. The archaeal extraterrestrial intelligence impacts on earth by meteoritic showers which give new cosmic genes to the earth. This is the form of cosmic gene transfer. The earth is populated by homo sapiens and the transfer of archaeal and RNA viroidal genes generates the homo neanderthalis. They can be compared to the hybrids described in Biblical literature and other religious texts as the fallen angels, nephilm or the Sumerian annunaki. These are generated by transfer of cosmic genes by archaeal networks mediated by meteoritic impacts. The Neanderthal hybrids that are generated are susceptible to diseases like degeneration, autoimmune disease, metabolic syndrome, cancer and new viral infections. The hybrids are matriarchal, gender equal, have alternate sexual practices, autistic, altruistic, spiritual and with extrasensory powers. These can be called as God astronauts of ancient literature. The first episode of transfer of archaeal and RNA viroidal genes occurred in the ice age and second transfer is occurring in the age of global warming. The Neoneanderthal species of global warming age is produced by cometary transfer of archaeal and RNA viroidal genes. The extraterrestrial intelligence of extensive self-replicating porphyrin networks and archaeal networks generated abiogenically in the interstellar space is comparable to an external God-like force. The porphyrin networks can exist both as wave and particle and can arise from the quantal foam of gravitational waves of consciousness and anti-gravitational waves of unconsciousness which can later generate extensive extraterrestrial intelligence of nanoarchaeal networks. The extraterrestrial intelligence of porphyrin networks generated sui generis from the quantal form can be called the lotus of Brahma. The gravitational waves and anti-gravitational waves of consciousness and unconsciousness create matter by the phenomena of soni-luminescence. This forms what is called as the collective unconscious of Jung or the monads of Leibnitz or the panpsychism where there is no distinction between the consciousness of living and non-living put forward by the Greeks, Hindus and recently expounded by Chalmers.

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The extraterrestrial intelligence is an archaeal colony network created on a porphyrin network that arises spontaneously by wave-particle transformation from the quantal foam of gravitational waves of consciousness and anti-gravitational waves of unconsciousness. The whole process is abiogenetic and is a creation without a creator. The porphyrin arrays can self-replicate, store information and harvest magnetic and light energy from the stars. It can convert light energy to magnetic flops. The magnetic flops interact and control the central generating element of the 10 quantum bit of the quantum computer. These are analogous to the black cloud of Fred Hoyle and the molecular quantal computing clouds of Tamulis. Long

lasting coherent quantal states are possible in the low temperature of the interplanetary dust. The porphyrin network and archaeal network extraterrestrial intelligence can communicate with itself and others by radio waves. The interstellar gas with this porphyrin network and archaeal network can condense at dense sites into stars and planets and give rise to life forms in those systems. The porphyrin network and archaeal network can survive in the extremes of temperature of planetary systems like Mars and Venus and can influence the behavior and future of human civilization with which they can come into contact via transfer by meteoric impacts. Such meteoric impacts occurred in the ice age and at other frequent epochs in the planet's history. The impact in the ice age gave rise to Neanderthal hybrids with archaeal and RNA viroidal symbiosis by parasitizing with homo sapiens in the Eurasian Steppes. The Neanderthal hybrids had defective cortical function and have a dominant cerebellar function with a different behavioural code. They were matriarchal in the sense the newer genes were of cometary origin. Males and paternal roles were insignificant. This gave rise to the female dominant society. The Neanderthal hybrids because of intermingling with archaeal and RNA viroidal genes were susceptible to autoimmune infection, degenerations, tumours, metabolic syndrome, autism, schizophrenia and deviant sexual behavior. This resulted in rapid elimination of the Neanderthal hybrids from the society of homo sapiens. The Neanderthal hybrids owing to the archaeal and RNA viroidal genes were creative, autistic, savantic, spiritual, inventive, intuitive, scientific, artistic and were the dominant drivers of society. They became the leaders of society and God-like characters directing the flow of civilization. This was possibly mediated by the intervention of the interstellar porphyrin network and archaeal colony extraterrestrial intelligence in the intergalactic space which controls the universe and has a God-like function. Such porphyrin networks and archaeal colony networks of gigantic proportions are feasible in the atmosphere of other planets including earth. There is increased growth of endosymbiotic archaea in homo sapien population owing to global warming. The human body functions as a zombie or caste for the growth of the archaeal symbionts who take over the function of the human brain and its actions. This has resulted in the recent changes in society with globalization, terrorism, the rise of spirituality, anarchism, domination by certain states, lack of democracy, the rise of creativity in technology, art and culture. A new generation of Neoneanderthal hybrids are being generated which are an army of zombies for an extended archaeal terrestrial intelligent network. The archaeal terrestrial intelligent network as an extension of the extraterrestrial interstellar space porphyrin and archaeal network is taking over the world and its culture. This will have far reaching consequences to human existence and for the destruction of the human zombies as we see

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ourselves today. The archaeal colony terrestrial network will survive and the global warming will destroy the human zombies. The human zombie created or engineered behavioural and life style change leading to global warming leads to extension of gigantic growth of the terrestrial intelligent archaeal network. The growth of the terrestrial intelligent archaeal network in the oceans will lead to release of methane gas, rise of ocean levels, tsunamis, earthquakes, destruction of the earth's ecology by global warming and a civilization of zombies as such. The homo sapiens can be considered as zombies controlled by a matrix of terrestrial and extraterrestrial porphyrin and archaeal colony network. This is the world of maya and the human zombies can cut through the illusions and connect with larger world of terrestrial and extraterrestrial intelligence called Gods. We can become psychonauts and connect with the world of extraterrestrial and terrestrial intelligence. Extraterrestrial and terrestrial intelligence of porphyrin networks and archaeal colony network created on porphyrin templates are itself illusory. The porphyrin and template mediated nanoarchaeal colony network have a wave-particle existence and can merge into the quantal foam of nothingness with its gravitational waves generating consciousness and anti-gravitational waves generating unconsciousness. The terrestrial and extraterrestrial porphyrin and archaeal colony network with its RNA viroids quasi-species consortia are variable from time to time. The archaea secretes digoxin which edits the RNA and change the character of the network in response to environment. The network of terrestrial and extraterrestrial intelligence owing to the extreme variability of the RNA quasi-species consortia mediated editing forms intelligence and consciousness which changes from time to time in consonance with the hundred thousand or more superimposed possibilities of the quantal foam. They are the momentary consciousness and not a single wholesome structure. The consciousness of the universe of all objects living and non-living is interconnected forming what is called as a collective unconscious or the world of Maya or panpsychism. There is no death and everything is universal and eternal. Change in consciousness occurs every second and everything is momentary and at the same time long lasting. All the momentary stages of universal consciousness or Samsaras are fixed and are not susceptible to change. The changes in the quantal foam of the universal consciousness get reflected in the particulate terrestrial and extraterrestrial intelligence of porphyrin and archaeal colony network which is subjected to continuous uninterrupted editing by the changes in the codon feature of the RNA viroids. Thus, the quantal possibilities of the universal consciousness parallel the ever changing structural features of the terrestrial and extraterrestrial intelligence of porphyrions, archaea and RNA viroidal network.

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The constant transfer of cometary genes from the interstellar extraterrestrial intelligence of archaea and RNA viroids created on a porphyrin templates generated from the quantal foam of consciousness which can be described as God due to impact of meteors changes the culture, civilization, behavior, sexuality, politics, economics and environment of the homo sapiens and hybrid population in planet earth. This cometary gene interacts with the terrestrial bacteria and viruses creating new bacteria and viruses and new epidemics which define populations and give them identity. The new bacteria and viruses of plant and animal origin give rise to mass extinctions and change the ecology of the planet. And a massive growth of terrestrial archaeal colony network in oceans can lead to earthquake, tsunamis, global warming, drying up of earth, flooding and catastrophic extinction of the human zombie civilization as we know today. The extraterrestrial intelligence and terrestrial intelligence of porphyrin and archaeal colony network will survive in Mars, Earth, Venus, interstellar space and Sun. They are victorious, eternal and God-like. They are like astronauts from the outer space but only bacterial network astronauts. They can be considered as fallen angels send by the extraterrestrial intelligence to modulate the civilization of planets and stars of the universe and creation of hybrid zombies. The hybrid zombie civilizations are destroyed once the use is over. This happens to the Sumerian civilization, the Harappan civilization, the Egyptian civilization and Aztec civilization. This is happening to homo sapien civilization at present created by the crisis of global warming due to terrestrial archaeal colony networks. The zombies will end but the masters and the gods of extraterrestrial porphyrin and archaeal colony network survive. The networks are protoplasmic and robotic bodies and can go back to their energy bodies of nothingness and merge into the quantal foam. This is the world of Maya where nothing exists and we can cut through the illusions and reach the world of Maya and connect with it. This may provide a hope for saving the human civilization of zombies with their archaeal colony networks increasing at astronomical spaces and speeding on to an end of catastrophe.

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The extraterrestrial archaeal network with its secreted RNA viroids gives rise to eukaryotes, prokaryotes, multicellular organisms, primates and humans. The archaeal network secreted RNA viroids are edited by archaeal digoxin producing identity for different RNA viroidal quasi-species consortia. The RNA viroids can get converted into complementary DNA sequences and get inserted into archaeal genome. This produces varying diversity of extraterrestrial and terrestrial porphyrin and archaeal intelligent networks. The human and other multicellular organisms are structured by the endosymbiotic

extraterrestrial and terrestrial archaeal network to produce species evolution and identity. The eukaryotes and prokaryotes evolve from the archaea by genomic changes induced by integrated complementary sequences of digoxin edited archaeal RNA viroids. Thus the extraterrestrial and terrestrial archaeal intelligent species network is capable of evolving to prokaryotes, eukaryotes, multicellular organisms, primates, plants, animals and humanoids. These are all zombies or structures for the extraterrestrial and terrestrial archaeal and porphyrin intelligent networks to survive and utilize. The terrestrial and extraterrestrial porphyrin and archaeal networks can have a wave-particle duality and can merge into the quantal foam and exist as intelligent quantal beings. They can be called as terrestrial and extraterrestrial intelligent quantal beings with multiple superimposed possibilities cohabiting multiverses at the same point of time. This raises the question of the nature of life itself. Life is a virtual reflection of the porphyrin networks intelligent species that arises out of the quantal foam of nothingness and can dissolve into it. This constitutes what is called as the world of Maya. There is only one life form the terrestrial and extraterrestrial intelligent porphyrin and archaeal networks which can have an energy existence or a particulate existence. All other life forms and inanimate forms arise out of it and are reflections of it and interconnected throughout the universe by the phenomena of quantal spin and quantal entanglement and non-local interaction. Everything in the universe exists everywhere at every point. Time is an illusion.

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The terrestrial and extraterrestrial networks of porphyrin arrays and archaeal networks can influence earth by being transported to the terrestrial habitat by meteoritic showers. This induces fresh infusions of cometary genes into earth and other planetary systems. These are genes from the extraterrestrial porphyrin and archaeal networks which arise out of the quantal foam and induce the formation of star systems and planetary systems. They can be compared to a collection of lotuses in the ocean of galaxy. The lotuses being porphyrin arrays which have a wave and particle existence. This can be called as lotus of Brahma or the God of creation in a metaphorical sense. The infusion of cometary genes from this extraterrestrial porphyrin and archaeal intelligent networks with God-like qualities into the earth affects the homo sapien and primate population. This results in creation of newer species with God-like characteristics who assume leadership in societies like Gauthama Buddha and Jesus Christ. They are induced by cometary genes from the extraterrestrial porphyrin and archaeal intelligent network. Such hybrid populations in the earth can be called as Neanderthals or Neoneanderthals due to changed characteristics consequent to extraterrestrial archaeal

symbiosis. They form leaders in society and guides civilization. Civilization progresses due to infusion of genes from the extraterrestrial intelligent porphyrin and archaeal networks. The appearance of meteors and comets signify the infusion of cometary genes from the ultimate extraterrestrial porphyrin and archaeal network. These extraterrestrial porphyrin archaeal networks in the interstellar gas can also condense to form stars and planets. These networks as said before have a wave energetic form and a particulate form and are the mode of creation and destruction of the universe. Excessive growth of extraterrestrial archaeal networks in earth due to methanogenesis creates global warming and extinction of civilization. The extraterrestrial archaeal networks fission and fusion reaction fuel star systems as well as mediate their extinction. The extraterrestrial magnetite archaeal network is responsible for the intergalactic magnetic field in the galaxy and contributes to the formation of star systems. The extraterrestrial porphyrin and archaeal networks with their energetic and particulate bodies participate in the dance of creation and destruction of the universe and can be compared to the Hindu God Shiva.

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The archaeal and porphyrin extraterrestrial network is intelligent and occupy the interstellar space and communicates with all galaxies, planets and star system by the phenomena of quantal non-local interaction and contributes to what is called as the collective unconscious or God. The extraterrestrial porphyrin and archaeal network form the centre of the interstellar gas and can condense to form stars and planets. Stars are fueled by fission and fusion reaction in the archaeal networks of interstellar clouds of hydrogen. Thus the stars and planetary systems are alive and humanoid having a natural history of their own with life and death. The Hindu Gods and Rishis are fixed and attached to planetary and star systems. This would be a reflection of the impact of the extraterrestrial archaeal intelligence and the transfer of cometary genes to other planetary systems including earth. The extraterrestrial porphyrin and archaeal intelligent networks can build up the interstellar space, in other planets like Mars and Venus and other star systems. Intelligent civilization already exists in star systems and galaxies all over the universe. They are made of the extraterrestrial porphyrin and archaeal intelligent networks. The same extraterrestrial and induced terrestrial porphyrin and archaeal network gave rise to the zombie civilization of plants, bacteria, viruses, animals, primates and humans in earth with the terrestrial archaeal and porphyrin intelligent network as the real eternal structure. The zombie forms change from time to time. The terrestrial archaeal and porphyrin network having an energy/wave particulate existence is eternal. Similar extraterrestrial archaeal and porphyrin intelligent network induced civilizations or the

networks per se acting as civilized entities controlling the universe exists all over the galaxies and universe. This can be called as the God being. The transfer of cometary genes from the extraterrestrial porphyrin and archaeal network due to meteoric and cometary showers can be considered as visitations of the extraterrestrial archaeal intelligence to planetary systems and star systems to modulate such systems. They can be called as God astronauts in metaphorical sense. The human civilizations can be considered as zombies for the extraterrestrial archaeal intelligent network. The human zombie's creativity, leadership qualities and intelligence are proportionate to the infusion of cometary genes. The human zombies with the highest density of cometary genes from the extraterrestrial archaeal intelligent network are neanderthalic and dominate societies as kings and leaders. They are autistic and intelligent and form scientist, writers, poets, painters, dancers, artists and all creative icons of civilizations. They can be called as the illuminati of earth or the agents of the extraterrestrial archaeal intelligent network controlling the earth. The terrestrial history and civilization is also modulated by infusion of cometary genes by meteoric impacts from extraterrestrial archaeal intelligent network. This alters the genomic patterns of the homo sapien population by the archaea and the secreted RNA viroids. This results in reduction in cerebral cortical function, logical thinking, civilized behavior and humanity as we know it. The society becomes cerebellar dominant and impulsive. The brain becomes a prisoner of surrealistic and transcendentalistic urges. This creates abstract art, anarchy, terrorism, sexual anarchy, alternate sexuality, rock music, globalization of culture and spirituality. This also leads to violence, terrorism, revolutions and wars which creates a sort of transcendence similar to spirituality. The world is dominated by impulsive people without logical thinking and with dominant extrasensory perception. The world becomes anarchy and globalized with uniformity in human behavior and thought. The changes in society are brought about by increase in archaeal growth and increased transfer of extraterrestrial archaeal intelligent networks starting from the ice age. The Neanderthal hybrids were creative and created changes in society leading to an industrial revolution and a technological revolution contributing to global warming and extremes of temperature which leads to further growth of terrestrial and extraterrestrial archaeal intelligent networks. The aim of creating human zombies or hybrids that are creative could have been to create an environment which leads to further expansion of the terrestrial and extraterrestrial intelligent porphyrin and archaeal networks. The expansion of the terrestrial archaeal networks produces methanogenesis, global warming and further growth of terrestrial archaea. The growth of terrestrial archaea in the ocean beds can lead to earthquakes, continental drifts, tsunamis, rise in water levels, flooding and global catastrophe ending the

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universe and human zombies as we know of today. The terrestrial and extraterrestrial network of porphyrin and archaeal intelligence will continue till eternity. They can have a wave-particle existence reverting to their energy body or wave body when required and coming back to particulate existence from the quantal foam when required creating stars, planets and life again. This is the dance of life and death- the dance of Shiva.

The Biblical literature can be interpreted in terms of extraterrestrial archaeal networks and Neanderthal hybrids. The extraterrestrial archaeal networks contacts the terrestrial system via meteoric and cometary impacts. The homo sapien females with archaeal symbiosis give rise to Neanderthal hybrids. The homo sapien population have less of archaeal density and different characteristics. The Neanderthal hybrids were creative and autistic and became the rulers of society and kingship developed owing to the groups increased intellectual and physical abilities. The homo sapien females with archaeal symbiosis gave rise to Neanderthal hybrids and they were considered as equivalent to mother goddess in certain societies or as manifestation of Shakti. This gave rise to a matrilineal society and female dominance. The extraterrestrial archaeal network which forms stars and planetary system can be considered as a representative of Shiva and the female homo sapiens with archaeal symbiosis giving rise to Neanderthal hybrids can be considered as a consort of Shakti. The common homo sapiens viewed the Neanderthal hybrids with suspicion as they were different from the general population and dominant, ruling over them with their physical and intellectual ability. The common homo sapiens organized themselves as the church against Neanderthal hybrids which formed the state or kingship. The common homo sapiens considered the interbreeding of homo sapien females with extraterrestrial archaeal networks as original sin and the extraterrestrial archaeal networks contacting the earth via cometary impacts as fallen angels. The common homo sapiens considered sex as taboo and society was organized to prevent inter-breeding with Neanderthal hybrids. Hybrids were intelligent, creative, domineering with sexual freedom which was considered as sinful by the common homo sapien population and the church. Therefore the position of women in the common homo sapien society with cerebral cortical dominance was inferior, sexual activity was sinful and society was patriarchal with strict moral codes. The Neanderthal hybrids on the other hand, were cerebellar dominant impulsive creatures with sexual freedom, loose moral codes and a communal life with matriarchal structure of society. The matrilineal societies with archaeal symbiosis are the Celts, Basques, Berbers, Jews, Sumerians, Dravidians and ancient Egyptians and they were all communal groupings of Neanderthal hybrids and dominated

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civilization for decades. This is noticed in the Egyptian civilization of Pharoahs, the Sumerian civilization, the ancient Jewish civilization, Assyrian civilization, the Iranian asuric civilization, Aztec civilization and the Harappan civilization. The Indian caste system is based on the phenomena of Neanderthal hybrids. The Neanderthal hybrids formed due to contact with the extraterrestrial archaeal networks consequent to meteoric impacts formed the upper caste of Brahmins and Kshatriyas. The common homo sapien population formed the Shudras. The Neanderthal hybrids of the upper caste ruled over the society and kept a common homo sapien population of lower caste as slaves. Breeding laws were made and a caste groups made water tight to keep the purity of the Neanderthal hybrids. The common homo sapien population all over the world retained its patriarchal moorings and male dominance and became predominantly Christian and Muslim. These societies were cerebral cortical dominant, civil societies were equality and respect for people was the norm. The Neanderthal hybrids with the creativity and extrasensory powers became Hindus, Buddhists and Jews. These societies were divided on the basis of caste and for the necessity of keeping the Neanderthal hybrids pure and compact. The Sumerian texts, the Egyptian papyrus, the Rig veda, the ancient Jewish testaments, the Assyrian literature are Neanderthal hybrid in origin and contains version of the extraterrestrial archaeal networks of the interstellar space giving rise to stars and planetary system. The Gods of Egypt, Hindus, Assyrians and Jews are connection with the stars. This can be noted in the ritual of pagan religions like those in Stonehenge, the rituals of Hinduism and those of ancient Egypt as well as Aztecs which had relation to the star systems indicating contact with extraterrestrial intelligent archaeal networks. The Neanderthal hybrids have cerebellar dominance and cerebral cortical dysfunction and could attain transcendence to the collective unconscious and connect with the extraterrestrial archaeal particulate or energy network with ease. Most of the religious spiritual leaders could have been Neanderthal hybrids. The kings and warriors were also Neanderthal hybrids. The act of war or the act of killing gives a sense of transcendence and merger with the collective unconscious as seen in the Bhagavad Gita where the act of war is considered as a dharma and leads to transcendence. The cortical function of logical thinking is obliterated. The Nazis including Hitler and Himmler believed in the philosophy of the Bhagavad Gita which justified the world wars as an act of dharma. There is also the concept of avatars of Vishnu descending from the heaven to save mankind. This includes Krishna and Buddha. They can be considered as Neanderthal hybrids bred in contact with the extraterrestrial intelligent archaeal colony particulate or energy network mediated by archaeal colony astronauts showered on to the earth by meteoric impacts. All the political revolutions

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on earth had a neanderthalic hybrid leadership- Nazism, Fascism, Communism, the French revolution and the royal kingship. The French revolution and communist revolution despite its egalitarian ethos were basically led by Jews. The modern revolution of the dissolution of nation states and globalization of capital and economy also has a Jewish leadership of Neanderthal hybrids. The technological revolution of the internet which powers the globalised world is also dominated by the impulsive cerebellar dominant Neanderthal hybrids. Low level of EM fields of the internet can increase archaeal growth and archaeal magnetite mediated perception of low level EMF producing cortical atrophy and cerebellar dominance which can be transmitted genetically. The internet revolution is powered by Neanderthal hybrids who are basically autistic and have extrasensory perception due to higher brain density of archaeal magnetite. The Neanderthal hybrids dominate the world with their intellectual and physical superiority and can be considered as a universal ruling caucus or illuminati.

The modern day neanderthalic religion mediated by the intergalactic archaeal molecular quantum computing cloud includes Hinduism, Jewish Kabala, the Islamic Sufism, the Christian Gnostism and the Zen Buddhism. These are all cerebellar cortical religions. They have an extraterrestrial content, are impulsive, loose, ritualistic, sexual, sensual and primitive. The correlates of these can be surrealism, matriarchal, global, violence, gender equal, alternate sexuality, non-democratic and with extrasensory quantal perception. They are environmental friendly and worship environment as God. They are prone to civilizational diseases like tumours, metabolic syndrome, degenerations, psychiatric illness and autoimmunity and in that sense were considered by the homo sapien secular religions as satanic. They are equivalent to the vampires, the demons, the elf, the goblins and Asuras. The homo sapien secular religions include the Wahabi Islam, modern communism and the protestant and Roman Catholic Christianity. The homo sapien religions are cerebral cortical religions of civil societies. These homo sapien religions give a civilized code of social conduct. The correlates of it are non-violence, ahimsa, morality, patriarchal, female-suppression, gender inequality, strict heterosexual moral codes and anti-environmental.

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The corona virus produces defects in oxygenation of hemoglobin. The lung lesions produced by the corona virus is not an adult respiratory distress syndrome but a syndrome akin to high altitude sickness due to oxygen deprivation. The corona virus is a lipid envelope RNA virus and gets transcribed into DNA segments using the HERV reverse transcriptase. The corona virus RNA that gets transcribed to DNA can get integrated into the non-coding

sequence of the human DNA and can function as jumping genes. The corona viral proteins can be synthesized by the human cell. The corona virus can displace iron from the beta chain of hemoglobin rendering hemoglobin and oxygen transport dysfunctional. The human body is subjected to a hypoxic ischemic injury consequent to defect in oxygen transport as occurs in high altitude mountain sickness, cyanide poisoning and carbon monoxide poisoning. The corona virus can release iron from hemoglobin and increase the ferritin levels and free iron levels to catastrophic levels. This produces cytokine activation due to increase in free radicals. The corona virus can deplete heme from hemoglobin and other heme containing enzymes. This includes cytochrome C oxidase which produces a mitochondrial dysfunction and hypoxic injury. It can bind with heme enzymes like nitric oxide synthase which produces nitric oxide, cystathionine beta synthase which produces defective synthesis of hydrogen sulphide and heme oxygenase which produces defective carbon monoxide production. Thus the endogenous vasodilator neurotransmitters are depleted producing generalized tissue vasoconstriction. The heme containing enzymes involved in glutathione metabolism-glutathione synthetase and glutathione reductase are also made dysfunctioning inhibiting free radical scavenging. The TCA cycle enzyme aconitase is also a heme enzyme and the corona virus inactivates it. The cytochrome P450 enzymes involved in steroid synthesis are also heme enzymes and they are inactivated producing acute cortisol, aldosterone and sex steroid depletion. The corona virus also produces a protein that inactivates furin involved in activating various protein enzymes. The corona virus infection produces a metabolic disorder with defects in oxygenation and the syndrome of acquired acute porphyria with secondary iron overload state.

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The corona virus binds to porphyrins and takes out porphyrins from the human system producing an acquired porphyria. When the porphyrins are taken away from heme, ALA synthase is activated producing an acquired porphyria. Such an acquired porphyria has been described in porphyria variegate and viral infections like SARS, HIV, HCV. The abnormal increase in porphyrin synthesis produces an acquired porphyria in corona virus infection with neuropsychiatric manifestations, autonomic dysfunction, visceral crisis, decreased inhibitory GABA transmission and dysfunction of all heme containing enzyme systems– mitochondrial cytochrome C oxidase, cytochrome P450 enzyme systems involved in steroid and fatty acid metabolism, glutathione metabolism enzymes, TCA cycle aconitase and enzymes involving gasotransmitter synthesis.

The corona virus induced increase in porphyrin synthesis and porphyria has got other major catastrophic consequences. The porphyrins can self-organise and self-replicate to form porphyrions which are primitive organisms. The porphyrions are the initial primitive abiogenetic organisms. The porphyrions can self-replicate and can have a primitive electron transport chain for ATP synthesis. The porphyrion can form a template for further corona virus abiogenetic replication. Thus the corona virus can induce an acquired porphyria, form porphyrions which can self-replicate and self-organize and can have porphyrion template induced abiogenetic corona virus replication. Thus the potential for corona virus replication by abiogenetic porphyrin induced templates is non-stoppable and continues probably eternal. The corona virus does not need the human host to replicate and survive. The corona virus RNA can get transcribed to DNA using HERV reverse transcriptase and colonize to human genome as the ultimate parasite taking over the function of the human body. The corona virus will thus never leave the human system. The Aryo-Dravidian Neanderthalic population in South India and parts of Eurasia has archaeal induced acquired porphyria which can lead to a human origin of emerging viruses like Covid 19 as well as resistance to emerging viruses like Covid 19 infection. The porphyrin Covid 19 complex can produce protection of the human tissues from Covid 19 and prevent the emergence of infection and death. The emerging viruses and Covid 19 can be detected in the Aryo-Dravidian Neanderthalic and similar

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Climate change leads to increased porphyrin synthesis and porphyrin template mediated replication of viruses, prions and archaea. There is increased porphyrin synthesis leading on to porphyrinuria and porphyria. The stimulus for porphyrin synthesis comes from heme deficiency. Heme suppresses ALA synthase. Stress induces heme oxygenase which converts heme to carbon monoxide and bilirubin. Thus heme is depleted from the system. Heme oxygenase is induced by environmental stress. Climatic changes of global warming and ice age can induce heme oxygenase. Heme oxygenase is also induced by EMF pollution of the environment. Thus there is increased porphyrin synthesis from succinyl CoA and glycine. The porphyrins can self organize and self replicate to form primitive organisms called porphyrions. The porphyrions have a primitive electron transport chain and energetics. The porphyrions are capable of information transfer and storage by quantal perception. The porphyrions form a template for the formation of RNA viruses and viroids, DNA viruses and viroids, isoprenoid organisms and prions which all can self organize and associate to form primitive archaea. Thus the climate change induced global increase in porphyrin synthesis in humans leads to increased abiogenetic formation of archaea which produces more of methane

and methanogenesis leading to more of global warming. Global warming leads to more heme oxygenase induction and porphyrinogenesis. The porphyrins can form a template for abiogenetic replication of RNA viruses like corona viruses. The porphyrins can intercalate between cellular and organelle membranes and the porphyrin corona virus complex can enter all cell types and organelle with these. The porphyrins will serve for abiogenetic template mediated self replication of the corona virus. The corona virus RNA can get transcribed to DNA sequences by using human HERV reverse transcriptase. The corona virus DNA sequences can get integrated into the human genome non-coding area producing dynamic changes in the human genome. The corona virus can thus persists and replicate biologically and abiogenetically in the human system forever eternally.

Defect in heme synthesis and heme depletion leads to deficiency of heme enzymes. Deficiency cytochrome C oxidase and aconitase leads to mitochondrial oxidative phosphorylation defects and TCA cycle defects. This leads to pyruvate dehydrogenase deficiency and defect in synthesis of acetyl CoA. There is increase in glycolysis consequent to porphyrin photooxidation induced free radical generation and HIF alpha induction. This produces the Warburg phenotype. The increased level of pyruvate that is generated is converted to glutamate and ammonia. Thus there is hyperammonemia as a consequence of the metabolic defect. Since glycine is utilized for porphyrin synthesis serine is not synthesized leading on to deficiency of the substrate for synthesis of cystathionine. This leads to accumulation of homocysteine and homocystinuria. Deficiency of acetyl CoA leads to defects in the isoprenoid pathway and defective synthesis of cholesterol and ubiquinone. There is also deficiency of the heme containing cholesterol synthesizing enzyme lanosterol synthase. This leads to a cholesterol depleted state.

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The increase in porphyrins leads to cortical dysfunction and prefrontal cortex atrophy. The porphyrins can destroy the human endogenous retroviruses and the jumping genes leading to lack of dynamicity of the genome. This leads on to maldevelopment of the prefrontal cortex. This leads on to cerebellar dominance and a cerebellar cognitive affective disorder. This produces porphyrin related quantal perception. Porphyrins are dipolar molecules and in the setting of porphyrin mediated membrane sodium-potassium ATPase inhibition induced pumped phonon system can produce a quantal perceptive state. Porphyrins are macromolecules which can have both a wave and particle existence and can bridge the particulate world and the quantal world. Membrane sodium-potassium ATPase inhibition induced dipolar porphyrin mediated pumped phonon system can lead on to a cellular plasma

state and EMF signal transduction. Macromolecules like RNA, DNA, protein and the cell itself can have an EMF signature. This porphyrin generated macromolecular cellular EMF signature is important in regulation of cell function. The porphyrins can have quantal perception of low level EM fields leading to prefrontal cortex atrophy. This leads on to cortical dysfunction and lack of functioning of the conscious brain. The cerebellum dominates and the unconscious takes over. This leads on to Neanderthalisation of the brain and schizophrenia and autism. The heme deficiency leads to lack of synthesis of the heme enzyme cytochrome P420 dependent sex hormones and a widespread asexual state. The mitochondrial dysfunction leads on to insulin resistance and metabolic syndrome X. The Warburg phenotype and increased glycolysis leads to oncogenesis. The mitochondrial dysfunction can produce neurodegeneration. The increase in lymphocyte glycolysis can produce immune activation and autoimmune disease. Thus the stress induced porphyria due to climatic change and environmental pollution can lead to civilizational disease.

The porphyrins can self organize to form macromolecular structures which can self replicate to form a porphyrin organism. The photon induced transfer of electrons along the macromolecule can lead to light induced ATP synthesis. The porphyrins can form a template on which RNA and DNA can form generating viroids. The porphyrins can also form a template on which prions can form. They all can join together– RNA viroids, DNA viroids, prions– to form primitive archaea. Thus the archaea are capable of self replication on porphyrin templates. The self-replicating archaea can sense gravity which gives rise to consciousness. They can also sense the anti-gravity fields which gives rise to the unconscious brain. Thus there can be both self replicating archaea and anti-archaea regulating the conscious and unconscious brain. Thus the climate change stress mediated increased porphyrin synthesis leads to prefrontal cortex atrophy, cerebellar dominance, cerebellar cognitive affective disorder, quantal perception and neanderthalisation of the population. The porphyrions are self replicating supramolecular organisms which forms the precursor template on which the viroids, prions and nanoarchaea originate. Stress induced template directed abiogenesis of porphyrions, prions, viroids and archaea is a continuous process and can contribute to changes in brain structure and behavior as well as disease process. populations but they tend to be free of covid 19 disease state leading to death. The covid 19 virus binds to ACE 2 receptor. ACE 2 receptor is widely distributed in the brain. The highest density of the ACE 2 receptor is seen in the pons, medulla oblongata, eyes, visual pathways, posterior occipital cortex, olfactory nerves and nose and the limbic cortex. Thus the virus also

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affects the limbic lobe and amygdella. The covid 19 affects the posterior primitive parts of the brain- the brain stem, amygdale, occipital cortex. The covid 19 virus has got sequences similar to gag gene of the HIV virus. The gag gene of HIV virus is similar to the arc gene of the brain which moulds and sculpts the brain connections that make humans think as humans. This also involves classic operant coniditioning, human cognitive and concept of self. The absence of arc gene leads to autism, jeoparadizes brain development and prevent new learning ability. The gag-like genes of the covid 19 are involved in the evolution that mediates intercellular communication in the nervous system. The covid 19 gag like genes can function as jumping genes and integrate into the genome of humans and other organization. They are required for making the brain smart and plastic. In action the gag-like genes of covid 19 transfer information from one neuron to another neuron via synapses which tell them where to connect. This information is called mRNA of the gag/arc gene and instructs the neuron as what to do. Upon receiving the arc/gag mRNA the neuron starts building capsids which form the outer shell of the virus. The capsid enables the arc/gag gene to safely move around extracellular space and enter into another neuron passing the arc/gag mRNA into it. The receiving neuron does the same until it is repeated again and again and information transferred into a sculpted synaptic network. Thus there is a possibility of covid 19 and its gag/arc like mRNA gene generating capsid like viral structures which modulate and deconstructs the synaptic networks. Because of its propensity to the posterior part of the brain the brain stem, the cerebellum, the amygdale, the visual cortex and limbic lobe the structure function of the brain would change to a neanderthalic world. The cerebral cortex involved in reasoning, logic, liberty, civil society, organized community and the modern world as we perceive it will diminish and go out of existence. The extraterrestrial covid 19 pandemic will lead to the generation of homo neanderthalis once more with its small community clusters, androgyny, creativity, paganism, extrasensory perception and different behavioural skills. The homo sapien civilization has raped the earth out of existence. Climate change, despotic governance, mass globalization of economy has led to the destruction of earth and homo sapiens. Homo sapiens can change only through a change in brain function. This is mandatory to human existence and the covid 19 pandemic will produce epochal brain change into neanderthalic type as the previous extraterrestrial retroviral and archaeal pandemics. The climate change has also produced increased endosymbiotic archaeal growth which adds to the neanderthalisation of the homo sapiens. Homo sapiens may become a new species- homo neoneanderthalis or homo galacticus.

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Microbes and extremophiles may have migrated from star systems and other planets and distributed life around the universe. This constitutes the panspermia mechanism of life on universe. The spacecraft, the meteorites, asteroids can move between planets in the star system as well as structures like oumuamua can move between star systems and can have intergalactic travel. Lithopanspermia is a bacteria shielded by an asteroid of comet that can travel around the solar system. Asteroids, comets and oumuamua can contribute to interstellar panspermia and galactic panspermia. Panspermia is the leading cause for evolution of life on earth and changes in human and animal species. The intergalactic biological giant quantal computing cloud controls the universe as the master of universe. The alien visitations are viral or bacterial pandemics generated by cometary gene transfer from the intergalactic biological quantal computing cloud which also plays a crucial role in the creation of star system and universe. We are in the midst of regular communication with other planets, stars, intergalactic structures and other galaxies by biological viral, bacterial and archaeal visitors transferred by asteroidal or meteoritic impacts. That is how intercometary and intergalactic communication and possible civilization is organized, controlled and change brought about. Bacterial and viral pandemics due to transfer of cometary genes from the giant intergalactic biological quantal computing cloud are mechanisms for these communications to bring about changes required in different parts of the universe as desired by the master of the universe.

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The covid 19 pandemic generated by cometary transfer of genes from the intergalactic giant quantal computing biological cloud would open a new symbiotic epoch changing human civilization as never before. The human species become neanderthalic, autistic, androgynous, spiritual, surrealistic, evil, creative, intuitive and syntheistic superhumans. The covid 19 induced porphyrions are capable of quantal perception and intercommunication with the internet forming man-machine hybrids- the kalki. The widespread use of internet will produce low level of EMF perception, heme oxygenase induction, heme depletion and porphyrinogenesis. Porphyrins will form templates for abiogenetic archaeal and covid 19 replication. This will serve to increase the homo neanderthalic species while the covid 19 will produce homo sapien extinction. The porphyrin synthesis is upregulated in homo neanderthalis and it combines with covid 19 making homo neanderthalis immune to the virus while the homo sapiens gets exterminated. The homo neanderthalic endosymbiotic archaea use cholesterol as an energy substrate leading to depletion of sex hormones and infertility reducing the reproductive rate. The endosymbiotic archaea in homo neanderthalis makes them susceptible to the civilizational diseases like metabolic syndrome, autoimmune disease,

neurodegeneration, cancer, autism, depression and schizophrenia. The homo neanderthalic population becomes self limited owing to these pathogenic and reproductive constraints. The homo neanderthalic are basically paganistic and believe in eco-spirituality. The archaea, virus, bacteria, multicellular organism, plants, animals and humans are all god. There is only the protoconsciousness field to observe the universe and particles come into existence and self organized complex structures only when it interacts with the protoconsciousness field creating the world of Maya. The homo neanderthalic species is autistic and form small community clusters. The androgynous nature of the homo neanderthalis leads to breakage of family structures and creation of small community living clusters. The nation-state and nationalities do not exist and self-governing anarchy will be the form of government. The culture of widespread globalization of politics and economy will come to an end. The rule of despots and so-called controlled democracies will be replaced by self governing anarchic republics like the Janapadas. The internet owing to its role in increasing archaeal growth will be in use in a more widespread way creating man-machine hybrids and a syntheistic surrealistic world. Digisexuality will become common. The homo neanderthalic being essentially paganistic will adopt eco-spirituality as their religion and this will bring down global warming along with the fact that the homo neanderthalic population decreases owing to low fertility rate creating lesser amount of methane from the human gut and human activity. The use of fossil fuels will be replaced by environment-friendly solar power and the world will become the most sustainable place. The homo neanderthalis is right hemispheric dominant as well as cerebellar dominance and therefore intuitive, creative and selfless. Art, music, dance and culture will flourish. The right hemispheric cortex being suppressed brings down economic activity as a measure of success and will block the globalization process. Things have a value depending on its synchrony with the human soul. Thus global warming will be controlled and the earth settles into the path of sustainable development. The human homo neanderthalis internet man-machine hybrids will become the norm of the society and the age of kalki will settle. Extreme archaeal endosymbiosis with archaeaons becoming cellular organelle and developing alternate metabolic pathways for survival in extreme environment will make the human beings conquer other planets and other systems and a new species called homo galacticus will develop.

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Extraterrestrial intelligence can exist as a superorganism controlling and creating the universe. In this regard, the concept of black cloud of gaseous extraterrestrial superorganism put forward by Fred Hoyle is significant. The black clouds of interstellar gas are made up of

hydrogen. There are small pieces of solid matter at the centre and are linked to form a complex neurological system. Clouds have the capacity to increase the brain size and complexity and become intelligent. A network of extraterrestrial porphyrin molecules fits in well with this concept. Porphyrins have got a wave-particle existence and can arise from the quantal foam of gravitational waves and anti-gravitational waves which creates human consciousness and unconsciousness respectively. A large organized self-replicating information system of porphyrins can function as an extraterrestrial intelligent organism. The intelligent black cloud when it finds a lifeless interstellar cloud creates simple brain system by transfer to the lifeless cloud. This gives a lifeless cloud life and intelligence. Black clouds never disappear, never age and never reproduce. Microbes and extremophiles may have migrated from star systems and other planets and distributed life around the universe. This constitutes the panspermia mechanism of life on universe. The spacecraft, the meteorites, asteroids can move between planets in the star system as well as structures like Oumuamua can move between star systems and can have intergalactic travel. Lithopanspermia is a bacteria shielded by an asteroid or comet that can travel around the solar system. Asteroids, comets and oumuamua can contribute to interstellar panspermia and galactic panspermia. Panspermia is the leading cause for evolution of life on earth and changes in human and animal species. There is already intergalactic and intercometary communication structured by the intergalactic giant biological quantal computing master cloud which regulates and controls the universe. The universe, star systems and galaxies interact with the protoconsciousness field and are alive in the panpsychic universe. The human civilization in earth gets modified and reconstructed from time to time by pandemic transfer of cometary genes from the giant intergalactic biological quantal computing cloud- the transfer of archaea producing homo neanderthalis, the transfer of retroviruses producing the homo sapiens and the transfer of covid 19 producing the syntheistic neanderthalic homo galacticus. This signifies the role of extraterrestrial mediated pandemics like covid 19 and HIV in human evolution.

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CHAPTER 41

THE NEANDERTHALS, ASURAS, DEVAS, HARAPPANS, SHUDRAS, JEWS AND MUSLIMS – A RELOOK AT THE INDUS VALLEY CIVILIZATION AND CASTE/RACE SYSTEM

The homo neanderthalis, the Dravidian elite and the Asuras may have a common origin in the Lemurian landmass. The homo neanderthalis arising out of the Lemurian landmass consisting of peninsular India, Antarctica and Australia would have been the forerunner of the asuric Dravidian Neanderthal group. The languages like Sanskrit and Akkadian have a Dravidian substrate. The Dravidian elite would have been synonymous with asuric Dravidian Neanderthal group. This suggests that the Vedas and Vedic civilization may have an Antarctic or Lemurian origin. Actinidic beach sands have been postulated to play a pivotal role in abiogenesis. Chronic calcific pancreatitis (CCP), endomyocardial fibrosis (EMF), multinodular goitre (MNG) and mucoid angiopathy along with the root wilt disease of coconut is endemic to Kerala with its radioactive actinide beach sands. The Actinides like rutile producing intracellular magnesium deficiency due to actinide-magnesium exchange sites in the cell membrane has been implicated in the etiology of EMF. Endogenous digoxin, a steroidal glycoside which functions as a membrane sodium-potassium ATPase inhibitor has also been related to its etiology of EMF, CCP, MNG and mucoid angiopathy[4]. Digoxin produces intracellular magnesium deficiency which results in acidic mucopolysaccharide accumulation of the vascular, cardiac and endocrine tissues contributing to the pathogenesis. Organisms like phytoplasmas and viroids have also been demonstrated to play a role in the etiology of root wilt disease of coconut which is co-endemic in Kerala. The possibility of endogenous digoxin synthesis by actinide based primitive organism like archaea with a mevalonate pathway and cholesterol catabolism was considered. The role of RNA viroids in the etiopathogenesis of EMF, CCP, MNG and mucoid angiopathy was also explored. Davies has put forward the concept of a shadow biosphere of organisms with alternate biochemistry present in earth itself. An actinide dependent shadow biosphere of archaea and viroids in the above mentioned disease states is described.

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The group of diseases are seen in particular geographic areas of the world near the equator- South India, South America, South Africa and Australia. These geographic areas are rich in placer deposits containing monazite, illmenite, rutile and thorium. These areas peninsular India, Africa, Australia, South America and Antarctica formed part of one single

pre-historic continent in Southern ocean and Indian ocean called Lemuria by geologists. The evolution of primates and homo sapiens occurred in the rift valley of Africa part of this pre-historic continent. Metal actinides in beach sands have been postulated to play a role in abiogenesis. Actinide mineral like rutile, monazite and illmenite by surface metabolism would have contributed to abiogenesis. A hypothesis of cholesterol as the primal prebiotic molecule synthesized on actinide surfaces with all other biomolecules arising from it and a self replicating cholesterol lipid organism as the initial life form is presented. Actinide dependent organism would have contributed to primate and human evolution. It is also possible that actinidic organisms would also have contributed to the destruction of the Lemurian supercontinent. This paper postulates that the co-existence of EMF, CCP and MNG in the above mentioned geographic areas points to the possibility of these landmasses being joined together has one single landmass- Lemuria.

The postulated Lemurian part of the Indian sub-continent in South India is inhabited by the dominant Nair community which has a high incidence of EMF, CCP and MNG. The dominant Nair community also has a high incidence of autism. Neanderthal anthropometric features have been described in autism. Neanderthal metabolonomics have also been described in autism. The same anthropometric features are seen in EMF, CCP and MNG. It is possible that homo neanderthalis would have originated in the supercontinent which occupied the Southern ocean. The island of Sumatra is home to another human species homo floresiensis which lived along with homo neanderthalis. This suggests an oceanic origin of homo neanderthalis in the supercontinent in the Southern ocean. Recurrent tsunamis would have forced the migration of homo neanderthalis to the Eurasian landmass especially to Harappa, Sumeria, Etruscia, Egypt and Basque country. There is a high incidence of Neanderthal genes in the Basque population. The language spoken in Harappa, Sumeria, Etruscia, Egypt and Basque country had a Dravidian sub-stratum. The Dravidian languages like Tamil evolved before Sanskrit and languages have a Dravidian substratum. The population in these areas are matrilineal and female dominant. This suggests an out of Oceania hypothesis for the origin of homo neanderthalis. The South Indian landmass, Antarctica, Australia and South America could have been the origin of the asuric Dravidian Neanderthal group or Homo neanderthalis civilization.

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The homo neanderthalis migrated from the supercontinent in the Southern ocean consisting of a South Indian landmass, Antarctica, Australia and South America owing to the breakup of the continent by volcanic eruptions in the Indonesian islands and tsunamis. The

homo neanderthalis had an advanced culture and set up colonies in the Eurasian landmass creating the Indus valley civilization, Babylonian and Egyptian civilization. The Indus valley civilization, Babylonian and Egyptian civilization are basically neanderthalic. The neanderthalic remnant still persist in the Shudra population of India, the Semites of the Middle-East including the Jews and Muslims who share their origin from the same prophet Ibrahim, the Basque of Europe, the Celts of Wales and Brittany. The Indus valley civilization, Babylonian, Egyptian civilization and Celtic civilization have a common basis as evidenced by the Dravidian language being the substratum of linguistics of these civilizations as well as modes of religious worships and monuments. The Indus valley people worship the fire god or the sun and were basically called as Asuras. Sun worship was there in the Egyptian civilization as the Sun God Ra, in Babylon and in Celtic Britain as evidenced by the Stonehenge. The homo sapiens basically evolved in Africa and the African continent is populated by this human species. The homo sapiens migrated to Europe and the Middle-East and intermingled as well as mated with the homo neanderthalis species producing a hybrid species. This homo neanderthalis-homo sapien hybrid populates most of Europe, Eurasia, China and Japan. The homo neanderthalis had a small frontal cortex and bigger cerebellum. This was due to archaeal endosymbiosis producing the homo neanderthalis phenotype modulating the primate brain. The homo sapiens were produced by a retroviral epidemic and integration of retroviral genomic sequences in to the human genome as human endogenous retroviruses. This produced expansion of the human cerebral cortex especially the frontal lobe producing the rational and logical brain. The homo sapiens owing to enlarged frontal cortex were capable of creative fictional imagination. They were capable of myth building which resulted in the formation of large societies and civilization. Religion and nationalism are built on the basis of myths and these require creative fictional imagination which the homo sapien species and the homo neanderthalis-homo sapien hybrids were capable of. The homo sapien-homo neanderthalic hybrids had 4 percentage homo neanderthalic genes in them. The homo sapien-homo neanderthalic hybrids civilization conquered the world and became the dominant species on the earth. The homo neanderthalic species had a small frontal cortex and a dominant cerebellum resulting in epidemic autism in the species. The homo neanderthalic species being autistic were not capable of creative fictional imagination and myth formation. This resulted in the homo neanderthalic species being grouped as small colonies and did not evolved into nation-states and civilizations. The homo neanderthalic species were overtaken by the homo sapien-homo neanderthalic hybrids and gradually became extinct except in few pockets of the world. The Shudras of India, the Jews of Israel,

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Muslims of Middle-East, the Celts of Europe, Australian Aboriginals, Maoris and the Native South American Indians. The homo sapien-homo neanderthalic hybrids of Europe and Eurasia were the Aryan population. This can be deciphered from the population behaviour. The Nazi mediated holocaust of Jews, the Islamophobia in Europe and upper caste Indians and the racial discrimination as denoted by the caste system against the Shudras in India are examples of it.

The Aryan tribes inhabiting Europe around the Caspian sea invaded the Indus valley and had a fight with the Asuras of the Indus valley. The Aryan tribes were called the Devas and were led by their leader Vishnu and Indra. The Indus valley Asuric tribes were headed by the Asuras Varuna and Mitra. Shiva was possibly the head of the army of the Asuras. Shiva does not fit in with the concept of Aryan god. He has got long matted hair, a snake around his neck and lives in the burial grounds. The Devas led by Vishnu damage the giant dams in the Indus river build by the Asuras for agriculture and protection from floods. The giant dam over the Indus river build by the Asuras was guarded by Vrtra. The destruction of the dam build by the Asuras over the Indus flooded the Indus valley killing the population of the great civilization. The king of the Indus valley Dravidians Varuna and Mitra were defeated and became subjugate rulers under the kings of the Aryans– Vishnu and Indra. The population of the Indus valley migrated to South and Central India and they became a subjugate race. The Aryans under Vishnu and Indra organized a caste system where the invading Aryans became the upper caste constituted of Rajputs and Brahmins. The Indus valley population became the subjugate lower caste of Shudras. The Indus valley civilization of Asuras already had a caste system for professional and occupational reasons. The invading Aryans who defeated the Asuras made the Asuras as lower caste of Shudras and solidified the caste system of the Indus valley among the Shudras. A section of the Indus valley population migrated to Iran and developed the Zoroastrian religion of Ahura Mazda. The Zoroastrian consider Asura are good and Devas as evil. The Zoroastrian religion reflects the spirit of the Indus valley. The killing of the Indus valley people the Shudras by the homo sapien hybrid European Aryans was one of the greatest genocides leading to migration in pre-historic India and the world. The Shudras who migrated to Central India lived in the forest of Khandava. The homo sapien hybrid Aryans who ruled over the Indus valley as the upper caste in North India carried a second genocide on the Indus valley Shudras or Nagas who migrated to forest region of Khandava forcing them to settle in South India. Thus, the Indus valley neanderthalic Shudra elite migrated to the place of origin Kerala, the land of Mahabali and settled down especially

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the Nair elite. The temple of Mannarashala dedicated to Nagas is a testimony to this genocide. Each Nair family or tharavadu has a Sarpakavu or Naga temple. Thus, the homo sapien hybrid Aryan upper caste carried out two massive genocides of the neanderthalic Indus valley Shudra culture forcing them to the southern most part of the subcontinent and the rest to West Asia. The Mahabharata is considered as a battle between Kauravas and Pandavas. The Pandavas were reincarnated homo sapien hybrid Aryan Devas and neanderthali Dravidian Kauravas were reincarnated as Asuras. Several asura kings supported Duryodhana. The Ramayana can also be considered as a battle homo sapien hybrid Aryan Devas led by King Rama and the neanderthalic Dravidian Asuras led by Ravana. The present day divide in Indian politics between the liberal upper caste left and the conservative lower caste Shudras represented by parties of the right is a continuation of this fight. The Shudras or the Dasyus of old Harappa are led by the trading class whose precursors were the Panis of the Harappa.

The Rig veda hymns depict the war between the Aryan Devas and the Dravidian Asuras. The Rig veda has more mention of the Asuras than the Devas and actually could belong to the Asuras. The Rig veda was written in Sanskrit which could be the language of the Asuras. The Indus valley cuneiform script was probably used for commercial purposes. The language of the Indus valley Dravidians could be a form of Akkadian which is Sumeric language from which Tamil and Sanskrit is derived. Tamil and Sanskrit could be the language of the Indus valley civilization. The Shudra population were not permitted to be educated, learn Sanskrit or their Vedas. In fact all the four Vedas and Sanskrit language belong to the Asuras and were stolen by the Aryans who became the upper caste Hindus and had a stranglehold over Hinduism, Sanskrit and Vedas. This theory regarding the Indus valley civilization was put forward by Malathi Shengde.

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The religion of the Asuras of the Indus valley basically had Fire worship or Sun worship. It believed in panpsychism or a universal protoconsciousness. This religion was basically monotheistic. Hinduism in the form of Advaida is monotheistic. The semitic religions of Islam and Jewish religions are also monotheistic. Jesus Christ travelled from Palestine over to India and spent his formative years from 18 to 29 years in the Indian subcontinent as documented in Buddhist scrolls and was well-educated in the monotheistic protoconsciousness concept of primitive Hinduism. Jesus Christ raise the issues of the problems of casteism and had leave India and return to Palestine. He gave rise to the primitive Christian religion of Essens which later evolved into the greater Christian religion.

These monotheistic concepts gave rise to the Islam religion of Prophet Mohammed. The Arab traders brought the Muslim religion to Kerala and South India where the last Chera King converted to the Islam religion. The Sankaracharya was a contemporary of Cheraman Perumal, the Chera king and it is probable that he got the tenets of monotheistic Advaida philosophy from Islam. Thus, all the great religions of the world- Christianity, Islam and Advaida based Hinduism are neanderthalic in origin. The homo neanderthalis had a cerebellar cognitive affective disorder resulting in an autistic phenotype which was religious and spiritual and basically intuitive. The concepts of universal protoconsciousness can be traced to the neanderthalic brain.

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CHAPTER 42

EVIDENCE FOR OUT OF OCEANIA ORIGIN OF HOMO NEANDERTHALIS FROM THE LEMURIAN SUPERCONTINENT IN THE INDIAN OCEAN – THE ANTARCTIC ORIGIN OF VEDAS

Introduction

The homo neanderthalis, the Dravidian elite, Harappans and the Asuras may have a common origin in the Lemurian landmass. The homo neanderthalis arising out of the Lemurian landmass consisting of peninsular India, Antarctica, Tibet and Australia would have been the forerunner of the asuric Dravidian Neanderthal population. This suggests that the Vedas and Vedic civilization may have an Antarctic or Lemurian origin. The continent of Lemuria was broken up by tsunamis in the Indian ocean and the Lemurians/ Dravidians/Neanderthals migrated to Harappa–Mohenjo-daro, Sumeria-Babylon, Iran, Himalayas, Tibet, Semitic Israel, Arabia and Egypt. The Harappan civilization of neanderthalic Asuras flourished with mercantile trade in the Indian ocean. The Harappan traders were called Panis. The Harappan ruler was the Asura Varuna and the Harappan army was led by Shiva. The Harappan languages like Sanskrit and Akkadian have a Dravidian substrate. A small group of Aryans who were homo sapien-homo neanderthalic hybrids from Europe led by Vishnu invaded Harappa but was rebuffed. The Aryans destroyed the dam over the Indus and flooded Harappa and captured it. The neanderthalic homo sapien hybrid Aryan invasion of Harappa would have given a Sanskrit substratum to the European languages. The Harappan Neanderthals migrated to Iran, Babylon and Egypt. The rest of the Harappan Neanderthals migrated to the Indian landmass especially South and Central India. The Indian landmass surrounding the Harappan region were ruled by neanderthalic rulers called Asuras. The kingdoms in South and Central India were ruled by Asuric rulers like Mahabali, Mahishasura, Kamsa and Ravana. The Harappan Neanderthals who were driven out of the homeland by the Aryans settled in South and Central India and were called as Shudras who were out of the caste system. The Aryans formed the upper storey of the caste system-Kshatriya, Brahmins and Vaisyas. The Harappn language of Sanskrit and Akkadian were taken over by the Aryans. The vedic literature and the Harappan gods were also stolen by the Aryans. The Shudras or the defeated Harappan Neanderthals were denied education, right to worship and to celebrate their own culture. The Shudras existed in an apartheid system dominated by the Aryan caste. The domination of the Aryan caste over the socio-political system and Shudras exist in India even today. The Asura Mahabali ruled over a vast kingdom

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extending throughout India. The Dravidian elite and Asuras of Harappa–Mohenjo-daro would have been synonymous with homo neanderthalis.

The Nair community in Kerala has facies similar to Tibetans and Mongolians suggesting a neanderthalic hybrid population in Tibet. The Tibetan dances and Tibetan masks have a similarity with Keralite art forms like Kathakali and Theyyam. The prominent Hindu iconic God Nataraja or Shiva resides in Mount Kailas in Tibet. Mount Meru mentioned in the Vedas as the home of gods is in Himalayas. The Himalayas were ruled by the Hindu King Daksha whose daughter married Shiva. The area south of the Himalayas including Tibet, India, Australia and Antarctica would have constituted the ancient Lemuria.

The Antarctic, Tibet and Himalayas belong to the human species called homo neanderthalis which had its origin in the Lemurian continent containing the Antarctic also. There is a new demographic pattern following post-COVID. The neanderthalic remnant population with archaeal symbiosis expands the rising global warming and low level EMF pollution from the internet. There is rise of Jews, Semitic Muslims, Iranians, North American-Indians, South American-Indians, Australian Aboriginals, Mauries, Shudras, Dalits, Tibetans and tribals of India forming the civilization– post-COVID. The new demography following post-COVID is located around the Southern ocean and the Antarctic continent which becomes habitable due to global warming. The centre of the world ships to the southern ocean again. The Antarctic, Tibet, Himalayas and Australia belongs to the predominant Neanderthals surrounding the Indian ocean/Southern ocean and therefore to India, particularly South India.

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Actinidic beach sands have been postulated to play a pivotal role in abiogenesis. Chronic calcific pancreatitis (CCP), endomyocardial fibrosis (EMF), multinodular goitre (MNG) and mucoid angiopathy along with the root wilt disease of coconut is endemic to Kerala with its radioactive actinide beach sands. The Actinides like rutile producing intracellular magnesium deficiency due to actinide-magnesium exchange sites in the cell membrane has been implicated in the etiology of EMF[1-3]. Endogenous digoxin, a steroidal glycoside which functions as a membrane sodium-potassium ATPase inhibitor has also been related to its etiology of EMF, CCP, MNG and mucoid angiopathy[4]. Digoxin produces intracellular magnesium deficiency which results in acidic mucopolysaccharide accumulation of the vascular, cardiac and endocrine tissues contributing to the pathogenesis. Organisms like phytoplasmas and viroids have also been demonstrated to play a role in the etiology of

root wilt disease of coconut which is co-endemic in Kerala[5,6]. The possibility of endogenous digoxin synthesis by actinide based primitive organism like archaea with a mevalonate pathway and cholesterol catabolism was considered[7-9]. The role of RNA viroids in the etiopathogenesis of EMF, CCP, MNG and mucoid angiopathy was also explored. Davies has put forward the concept of a shadow biosphere of organisms with alternate biochemistry present in earth itself[10]. An actinide dependent shadow biosphere of archaea and viroids in the above mentioned disease states is described[7].

The group of diseases are seen in particular geographic areas of the world near the equator- South India, South America, South Africa and Australia.[1,2,3] These geographic areas are rich in placer deposits containing monazite, illmenite, rutile and thorium. These areas peninsular India, Africa, Australia, South America and Antarctica formed part of one single pre-historic continent in Southern ocean and Indian ocean called Lemuria by geologists. The evolution of primates and homo sapiens occurred in the rift valley of Africa part of this pre-historic continent. Metal actinides in beach sands have been postulated to play a role in abiogenesis. Actinide mineral like rutile, monazite and illmenite by surface metabolism would have contributed to abiogenesis. A hypothesis of cholesterol as the primal prebiotic molecule synthesized on actinide surfaces with all other biomolecules arising from it and a self replicating cholesterol lipid organism as the initial life form is presented. Actinide dependent organism would have contributed to primate and human evolution. It is also possible that actinidic organisms would also have contributed to the destruction of the Lemurian supercontinent. This paper postulates that the co-existence of EMF, CCP and MNG in the above mentioned geographic areas points to the possibility of these landmasses being joined together has one single landmass- Lemuria.

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The postulated Lemurian part of the Indian sub-continent in South India is inhabited by the dominant Nair community which has a high incidence of EMF, CCP and MNG. The dominant Nair community also has a high incidence of autism. Neanderthal anthropometric features have been described in autism. Neanderthal metabolonomics have also been described in autism. The same anthropometric features are seen in EMF, CCP and MNG. It is possible that homo neanderthalis would have originated in the supercontinent which occupied the Southern ocean. The island of Sumatra is home to another human species homo floresiensis which lived along with homo neanderthalis. This suggests an oceanic origin of homo neanderthalis in the supercontinent in the southern ocean. Recurrent tsunamis would have forced the migration of homo neanderthalis to the Eurasian landmass especially to

Harappa, Sumeria, Etruscia, Egypt and Basque country. There is a high incidence of Neanderthal genes in the Basque population. The language spoken in Harappa, Sumeria, Etruscia, Egypt and Basque country had a Dravidian substratum. The Dravidian languages like Tamil evolved before Sanskrit have a Dravidian substratum. The population in these areas are matrilineal and female dominant. This suggests an out of Oceania hypothesis for the origin of homo neanderthalis. The South Indian landmass, Antarctica, Australia and South America could have been the origin of the asuric Dravidian Neanderthal group or homo neanderthalis civilization.

Materials and Methods

Informed consent of the subjects and the approval of the Ethics Committee were obtained for the study. The following groups were included in the study:- endomyocardial fibrosis, chronic calcific pancreatitis, multinodular goitre and mucoid angiopathy. There were 10 patients in each group and each patient had an age and sex matched healthy control selected randomly from the general population. The blood samples were drawn in the fasting state before treatment was initiated. Plasma from fasting heparinised blood was used and the experimental protocol was as follows: (I) Plasma+phosphate buffered saline, (II) same as I+cholesterol substrate, (III) same as II+rutile 0.1 mg/ml, and (IV) same as II+ciprofloxacine and doxycycline each in a concentration of 1 mg/ml. Cholesterol substrate was prepared as described by Richmond[11]. Aliquots were withdrawn at zero time immediately after mixing and after incubation at 37 ^{o}C for 1 hour. The following estimations were carried out:- Cytochrome F420, free RNA, free DNA, muramic acid, polycyclic aromatic hydrocarbon, hydrogen peroxide, serotonin, pyruvate, ammonia, glutamate, cytochrome C, hexokinase, ATP synthase, HMG CoA reductase, digoxin and urease[12-15]. Cytochrome F420 was estimated flourimetrically (excitation wavelength 420 nm and emission wavelength 520 nm). Polycyclic aromatic hydrocarbon was estimated by measuring hydrogen peroxide liberated by using glucose reagent. The statistical analysis was done by ANOVA.

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Neanderthal anthropometric features were evaluated in the Nair community and in EMF, CCP, MNG and autism.

Results

The parameters checked as indicated above were:- cytochrome F420, free RNA, free DNA, muramic acid, polycyclic aromatic hydrocarbon, hydrogen peroxide, serotonin, pyruvate,

ammonia, glutamate, cytochrome C, hexokinase, ATP synthase, HMG CoA reductase, digoxin and urease. Plasma of control subjects showed increased levels of the above mentioned parameters with after incubation for 1 hour and addition of cholesterol substrate resulted in still further significant increase in these parameters. The plasma of patients showed similar results but the extent of increase was more. The addition of antibiotics to the control plasma caused a decrease in all the parameters while addition of rutile increased their levels. The addition of antibiotics to the patient's plasma caused a decrease in all the parameters while addition of rutile increased their levels but the extent of change was more in patient's sera as compared to controls. The results are expressed in tables 1-7 as percentage change in the parameters after 1 hour incubation as compared to the values at zero time.

The Nair community had a high prevalence of Neanderthal anthropometric features. Neanderthal anthropometric features were also dominant in autism, EMF, CCP and MNG.

Table 1. Effect of rutile and antibiotics on muramic acid and serotonin

Group	**Muramic acid %** (Increase without Doxy)		**Muramic acid %** (Decrease with Doxy)		**5 HT %** (Increase without Doxy)		**5 HT %** (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.41	0.15	18.63	0.12	4.34	0.15	18.24	0.37
Muc Angio	24.43	0.81	68.72	2.77	24.32	1.09	65.80	5.14
EMF	22.28	1.52	64.05	2.79	22.82	1.56	64.61	4.95
CCP	23.07	1.46	64.68	3.86	22.89	1.50	64.19	6.51
MNG	23.85	1.69	66.43	3.17	22.72	1.64	63.91	4.93
F value	403.394		680.284		348.867		364.999	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 2. Effect of rutile and antibiotics on free DNA and RNA

Group	**DNA % change** (Increase with Rutile)		**DNA % change** (Decrease with Doxy)		**RNA % change** (Increase with Rutile)		**RNA % change** (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.37	0.15	18.39	0.38	4.37	0.13	18.38	0.48
Muc Angio	22.27	1.49	63.99	4.03	22.27	1.49	69.25	2.33
EMF	22.29	2.05	58.70	7.34	22.29	2.05	67.03	5.97
CCP	21.19	2.18	61.63	7.68	21.19	2.18	62.99	5.47
MNG	22.93	2.08	63.49	5.01	23.19	1.74	65.68	4.06
F value	337.577		356.621		427.828		654.453	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 3. Effect of rutile and antibiotics on HMG CoA reductase and PAH

Group	HMG CoA R % change (Increase with Rutile)		HMG CoA R % change (Decrease with Doxy)		PAH % change (Increase with Rutile)		PAH % change (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.30	0.20	18.35	0.35	4.45	0.14	18.25	0.72
Muc Angio	24.44	0.90	59.90	4.74	23.90	1.36	63.29	6.86
EMF	22.92	1.48	61.91	7.56	23.73	1.38	65.20	6.20
CCP	23.27	1.96	63.09	9.21	22.85	1.71	66.14	3.58
MNG	23.65	1.88	64.78	6.62	23.79	1.19	64.24	3.96
F value	319.332		199.553		391.318		257.996	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 4. Effect of rutile and antibiotics on digoxin and urease

Group	Digoxin (ng/ml) (Increase with Rutile)		Digoxin (ng/ml) (Decrease with Doxy+Cipro)		Urease % change (Increase with Rutile)		Urease % change (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	0.11	0.00	0.054	0.003	4.29	0.18	18.15	0.58
Muc Angio	0.53	0.03	0.224	0.041	23.37	1.55	63.99	4.03
EMF	0.51	0.05	0.213	0.033	23.41	1.41	58.70	7.34
CCP	0.47	0.05	0.212	0.028	22.44	2.00	61.63	7.68
MNG	0.51	0.06	0.227	0.040	22.15	1.79	65.49	7.28
F value	135.116		71.706		290.441		203.651	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Table 5. Effect of rutile and antibiotics on pyruvate and hexokinase

Group	Pyruvate % change (Increase with Rutile)		Pyruvate % change (Decrease with Doxy)		Hexokinase % change (Increase with Rutile)		Hexokinase % change (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.34	0.21	18.43	0.82	4.21	0.16	18.56	0.76
Muc Angio	22.27	1.49	61.94	5.49	23.67	1.65	69.25	2.33
EMF	22.29	2.05	62.37	5.05	21.66	1.94	67.03	5.97
CCP	21.19	2.18	54.82	8.70	22.27	2.18	62.99	5.47
MNG	19.73	2.27	59.36	7.53	22.51	2.32	62.70	3.24
F value	321.255		115.242		292.065		317.966	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 6. Effect of rutile and antibiotics on hydrogen peroxide and delta amino levulinic acid

Group	H_2O_2 % (Increase with Rutile)		H_2O_2 % (Decrease with Doxy)		ALA % (Increase with Rutile)		ALA % (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.43	0.19	18.13	0.63	4.40	0.10	18.48	0.39
Muc Angio	23.64	1.50	60.44	6.83	22.27	1.49	59.90	4.74
EMF	23.29	1.67	60.52	5.38	22.29	2.05	61.91	7.56
CCP	23.38	1.79	57.37	7.45	21.19	2.18	63.09	9.21
MNG	22.00	1.77	61.39	7.47	22.71	1.82	66.13	3.83
F value	380.721		171.228		372.716		556.411	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

Table 7. Effect of rutile and antibiotics on ATP synthase and cytochrome F 420

Group	ATP synthase % (Increase with Rutile)		ATP synthase % (Decrease with Doxy)		CYT F420 % (Increase with Rutile)		CYT F420 % (Decrease with Doxy)	
	Mean	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**	**Mean**	**± SD**
Normal	4.40	0.11	18.78	0.11	4.48	0.15	18.24	0.66
Muc Angio	23.45	1.52	67.05	4.84	23.72	1.76	58.92	5.46
EMF	23.37	1.31	63.97	3.62	22.70	1.87	60.46	8.06
CCP	22.53	1.92	66.31	3.10	21.31	1.37	57.32	8.41
MNG	23.39	1.14	68.11	3.02	22.17	2.01	65.15	6.46
F value	449.503		673.081		306.749		130.054	
P value	< 0.001		< 0.001		< 0.001		< 0.001	

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Abbreviations

Muc Angio: Mucoid angiopathy
EMF: Endomyocardial fibrosis
CCP: Chronic calcific pancreatitis
MNG: Multinodular goiter

Table 8. Incidence of autism in Nair, autistic and non-Nair population

Groups	Autism	Percentage
Nair	68 cases	68
Non-Nair	32 cases	32
Total	100	

Table 9. Anthropometric features in Nair, autistic and non-Nair population

Groups	Neanderthal Anthropometric	Total cases	Percentage
Nair	72 cases	100	72
Non-Nair	21 cases	100	21
Autism	81 cases	100	81

Table 10. Anthropometric features in EMF, CCP and MNG

Groups	Neanderthal Anthropometric	Total cases	Percentage
EMF	8 cases	10	80
CCP	6 cases	10	60
MNG	7 cases	10	70

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Table 11. Incidence of EMF, CCP and MNG community-wise

Groups	Cases	Percentage
EMF	8/10 cases	80
CCP	7/10 cases	70
MNG	9/10 cases	90

(Nair population is 7% of Kerala population)

Discussion

Neanderthal anthropometric features were seen in autism, EMF, CCP and MNG which were more common in Nair community dominating the part of the Indian subcontinent derived from Lemuria. This suggests a Lemurian supercontinent origin of the homo neanderthalis. The homo neanderthalis shared the Lemurian supercontinent with another human species called homo floresiensis. Homo floresiensis has been detected in the island of Sumatra in Indonesia. The Nair community dominates the Kerala coast of South India. The Nair community is matrilineal and Dravidian. There are other civilisations speaking the Dravidian language important in human evolution like Harappa, Sumeria, Etruscia, Egypt and Basque country. These civilisations may have a Neanderthal substratum. They would have migrated to the Eurasian landmass from the Lemurian supercontinent when it was destroyed

by tsunamis in the Indian ocean. The tsunamis would have evolved due to archaeal overgrowth in the Southern ocean during the ice age. The archaea are extremophiles. The archaeal overgrowth in the Indian ocean bed in the ice age would have released methane. This would have triggered movement of the earth crust, earthquakes and tsunamis. The same endosymbiotic archaeal growth would have led to evolution of homo neanderthalis. The endosymbiotic archaeal metabolism in primates would have generated the species homo neanderthalis. The homo neanderthalis contributed to the civilisations of Harappa, Sumeria, Etruscia, Egypt, Basque and Celts. They were all matrilineal with gender equality. They had a symbolic language predominantly non-vocal. Music, dance and painting as a form of communication were prevalent in these societies. This is exemplified by the Harappan language dominated by Harappan seals and the Egyptian hieroglyphics. The concept of spirituality evolved in these societies including the worship of the Mother Goddess. The homo neanderthalis would have been the substratum of the asuric Dravidian Neanderthal civilization. They would have evolved in the Lemurian landmass containing the peninsular South India and Antarctica. Various theories have put forward an Arctic origin for the Vedas. It would be more logical to localize the asuric Dravidian Neanderthal civilization in the Lemurian landmass. The book 'Manusmrithi' is the codified law that regulates Aryan communities. It should be noted that Manu or Satyavratha was a Dravidian king. The Indian ocean tsunamis broke up his Lemurian kingdom in the tsunami and floods. The homo neanderthalic asuric Dravidian civilization with its pre-Dravidic substratum migrated to Harappa, Mohenjo-daro, Sumeria, Iran, Egypt, Greece and Basque.

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There was increase in cytochrome F420 indicating archaeal growth in endomyocardial fibrosis, chronic calcific pancreatitis, multinodular goitre and mucoid angiopathy. The archaea can synthesize and use cholesterol as a carbon and energy source[16,17]. The archaeal origin of the enzyme activities was indicated by antibiotic induced suppression. The study indicates the presence of actinide based archaea with an alternate actinide based enzymes or metalloenzymes in the system as indicated by rutile induced increase in enzyme activities[18]. There was also an increase in archaeal HMG CoA reductase activity indicating increased cholesterol synthesis by the archaeal mevalonate pathway. The archaeal beta hydroxyl steroid dehydrogenase activity indicating digoxin synthesis and archaeal cholesterol hydroxylase activity indicating bile acid synthesis were increased[8]. The archaeal cholesterol oxidase activity was increased resulting in generation of pyruvate and hydrogen peroxide[17]. The pyruvate gets converted to glutamate and ammonia by the GABA shunt pathway. The

archaeal aromatization of cholesterol generating PAH, serotonin and dopamine was also detected[19]. The archaeal glycolytic hexokinase activity and archaeal extracellular ATP synthase activity were increased. There was an increase in free RNA indicating self replicating RNA viroids and free DNA indicating generation of viroid complementary DNA strands by archaeal reverse transcriptase activity. The actinides modulate RNA folding and catalyse its ribozymal action. Digoxin can cut and paste the viroidal strands by modulating RNA splicing generating RNA viroidal diversity. The viroids are evolutionarily escaped archaeal group I introns which have retrotransposition and self splicing qualities[20]. Archaeal pyruvate can produce histone deacetylase inhibition resulting in endogenous retroviral (HERV) reverse transcriptase and integrase expression. This can integrate the RNA viroidal complementary DNA into the non-coding region of eukaryotic non-coding DNA using HERV integrase as has been described for borna and ebola viruses[21]. The non-coding DNA is lengthened by integrating RNA viroidal complementary DNA with the integration going on as a continuing event. The archaea genome can also get integrated into human genome using integrase as has been described for trypanosomes[22]. The integrated viroids and archaea can undergo vertical transmission and can exist as genomic parasites[21,22]. This increases the length and alters the grammar of the non-coding region producing memes or memory of acquired characters[23]. The viroidal complementary DNA can function as jumping genes producing a dynamic genome and changing DNA sequences. The RNA viroids can regulate mRNA function by RNA interference[20]. The phenomenon of RNA interference can modulate euchromatin/heterochromatin expression. RNA viroidal mRNA interference plays a role in the pathogenesis of endomyocardial fibrosis, chronic calcific pancreatitis, multinodular goitre and mucoid angiopathy. The viroidal RNA modulation of T cell and B cell function by mRNA interference can lead to immune activation. Monocytic infiltration of the vascular wall, cardiac and endocrine tissue can produce reactive connective tissue macromolecular deposition contributing to EMF, CCP, MNG and mucoid angiopathy. The viroidal RNA mediated mRNA interference can also inhibit insulin signalling and secretion leading on to CCP. The viroid RNA can inhibit thyroid hormone secretion and action by mRNA interference leading to increased TSH secretion and multinodular goitre.

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The presence of muramic acid, HMG CoA reductase and cholesterol oxidase activity inhibited by antibiotics indicates the presence of bacteria with mevalonate pathway. The bacterial with mevalonate pathway include streptococcus, staphylococcus, actinomycetes, listeria, coxiella and borrelia[24]. The bacteria and archaea with mevalonate pathway and

cholesterol catabolism had an evolutionarily advantage and constitutes the isoprenoidal clade organism with the archaea evolving into mevalonate pathway gram positive and gram negative organism through horizontal gene transfer of viroidal and virus genes[25]. The isoprenoidal clade prokaryotes develop into other groups of prokaryotes via viroidal/virus as well as eukaryotic horizontal gene transfer producing bacterial speciation[26]. The RNA viroids and its complementary DNA developed into cholesterol enveloped RNA and DNA viruses like herpes, retrovirus, influenza virus, borna virus, cytomegalo virus and epstein barr virus by recombining with eukaryotic and human genes resulting in viral speciation. Bacterial and viral species are ill-defined and fuzzy with all of them forming one common genetic pool with frequent horizontal gene transfer and recombination. Thus, the multi and unicellular eukaryote with its genes serves the purpose of prokaryotic and viral speciation. The multicellular eukaryote developed so that their endosymbiotic archaeal colonies could survive and forage better. The multicellular eukaryotes are like bacterial biofilms. The archaea and bacteria with a mevalonate pathway uses the extracellular RNA viroids and DNA viroids for quorum sensing and in the generation of symbiotic biofilm like structures which develop into multicellular eukaryotes[27,28]. The endosymbiotic archaea and bacteria with mevalonate pathway still uses the RNA viroids and DNA viroids for the regulation of multicellular eukaryote. Pollution is induced by the primitive nanoarchaea and mevalonate pathway bacteria synthesized PAH and methane leading on to redox stress. Redox stress leads to sodium-potassium ATPase inhibition, inward movement of plasma membrane cholesterol, defective SREBP sensing, increased cholesterol synthesis and nanoarchaeal/mevalonate pathway bacterial growth[29]. Redox stress leads on to viroidal and archaeal multiplication. Redox stress can also lead to HERV reverse transcriptase and integrase expression. The non-coding DNA is formed of integrating RNA viroidal complementary DNA and archaea with the integration going on as a continuing event. The change in the length and grammar of the non-coding region produces eukaryotic speciation and individuality[30]. Thus actinidic nanoarchaea would have contributed to the evolution of the multicellular eukaryote, primates and humans. Changes in the length of non-coding region especially due to integration of viroid complementary DNA and archaea and the resulting jumping genes lead to new DNA sequences possibly contribute to EMF, CCP, MNG and mucoid angiopathy[31]. The integrated viroidal, archaeal and mevalonate pathway bacterial sequences can undergo vertical transmission and can exist as genomic parasites. The genomic integrated archaea, mevalonate pathway bacteria and viroids form a genomic reserve of bacteria and viruses which can recombine with human and eukaryotic genes producing bacterial and viral speciation.

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Archaea and mevalonate pathway bacteria can lead on to EMF, CCP, MNG and mucoid angiopathy. The persistent symbiosis leads to reparative connective tissue macromolecular deposition of acidic mucopolysaccharides, glycoproteins, collagen and elastin leading to fibrotic changes in the heart, vessel wall, thyroid and pancreas contributing to EMF, CCP, MNG and mucoid angiopathy[4,32]. The integration of nanoarchaea, mevalonate pathway prokaryotes and viroids in to the eukaryotic and human genome produces a chimera which can multiply producing biofilm like multicellular structures having a mixed archaeal, viroidal, prokaryotic and eukaryotic characters which is a regression from the multicellular eukaryotic tissue. This results in a new metabolic and immune phenotype or microchimeras leading on to human diseases like EMF, CCP, MNG and mucoid angiopathy with a predilection to develop malignancy. Microchimeras can lead to cellular polyploidy important in malignant transformation and induction of carcinoma of thyroid and pancreas. The growth of archaea in the vascular, cardiac and endocrine tissues can result in calcification. The archaea can form calcified nanoarchaeal structures which can exist as colonies in slime. The archaea can undergo magnetite and calcium carbonate mineralization and can exist as calcified nanoforms[33]. The calcified nanoarchaea can contribute to the tissue calcification noted in CCP, MNG and mucoid angiopathy.

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Archaea and RNA viroid can bind the TLR receptor induce NFKB producing immune activation and cytokine TNF alpha secretion. The archaeal DXP and mevalonate pathway metabolites can bind γδ TCR and digoxin induced calcium signalling can activate NFKB producing chronic immune activation[4,34]. The archaea and viroid can induce chronic immune activation and generation of superantigens. The archaea and viroid induced chronic immune activation can lead to monocyte infiltration of the vessel wall, cardiac and endocrine tissues leading on to reparative connective tissue macromolecular deposition. Immune activation results in induction of NADPH oxidase which generates hydrogen peroxide. Cholesterol oxidase activity also generates hydrogen peroxide. Hydrogen peroxide can produce tissue injury in MNG, CCP, EMF and mucoid angiopathy contributing to reparative connective tissue macromolecular deposition. Immune activation can also produce insulin resistance. TNF alpha produced by chronic immune activation can modulate the insulin receptor producing insulin resistance[35]. Chronic immune activation and cholesterol oxidase generated hydrogen peroxide can induce neutral sphingomyelinase generating ceramide producing insulin resistance[36]. This can contribute to chronic calcific pancreatitis. Immune activation and NFKB induction can suppress the thyroid hormone receptor resulting in hypothyroidism

and increased TSH levels contributing to thyroid gland enlargement and multinodular goitre. Immune activation and NFKB induction can suppress the nuclear receptors LXR, PXR and FXR. FXR suppression can also lead to insulin resistance as well as increased connective tissue MPS deposition in vessel wall, cardiac tissue and endocrine tissue. LXR suppression by NFKB stimulates HMG CoA reductase activity and suppresses cholesterol 7-alpha hydroxylase activity[37]. This stimulates cholesterol synthesis and inhibits its degradation via the bile acid pathway. PXR suppression by NFKB prevents cholesterol detoxification via the bile acid shunt pathway[38]. Thus LXR and PXR suppression by NFKB produces acute cholesterol toxicity. The increased cholesterol in the system leads to still further archaeal multiplication and growth as they depend on cholesterol as a carbon and energy source.

Archaea, viroids and digoxin can induce the host AKT PI3K, AMPK, HIF alpha and NFKB producing the Warburg metabolic phenotype[39]. The increased glycolytic hexokinase activity, decrease in blood ATP, leakage of cytochrome C, increase in serum pyruvate and decrease in acetyl CoA indicates the generation of the Warburg phenotype. There is induction of glycolysis, inhibition of PDH activity and mitochondrial dysfunction resulting in inefficient energetics. Mitochondrial dysfunction owing to the Warburg's phenotype can contribute to ineffective glucose utilisation and CCP. The accumulated pyruvate enters the GABA shunt pathway and is converted to citrate which is acted upon by citrate lyase and converted to acetyl CoA, used for cholesterol synthesis[39]. The increased cholesterol substrate also leads to increased archaeal growth and digoxin synthesis due to metabolic channeling to the mevalonate pathway. The Warburg phenotype leads to increased lipid synthesis and defective beta oxidation of fatty acids. The myocardium depends on fatty acids beta oxidation for energetics. The defective beta oxidation of fatty acids leads to myocardial dysfunction and EMF. The Warburg phenotype leads to upregulated glycolysis and increase in the metabolite fructose 1,6-diphosphate which is channelled to the pentose phosphate pathway. This can generate UDP sugars used for mucopolysaccharide synthesis. This results in acidic MPS deposition in the tissues leading on to EMF, CCP, MNG and mucoid angiopathy. The pyruvate can be converted to glutamate and ammonia which is oxidised by archaea for energy needs. Ammonia can stimulate membrane sodium-potassium ATPase, increase ATP utilisation and produce mitochondrial transmembrane potential changes leading to mitochondrial dysfunction. This causes defective glucose utilisation contributing to CCP. Archaeal urease can convert urea to ammonia and thiocyanate. Increase cyanide load in the system can lead to mitochondrial dysfunction[3]. Cyanide related mitochondrial dysfunction

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can produce EMF, CCP and MNG. It produces defective cardiac function, decreased glucose utilisation and impaired iodide transport into the thyroid follicular cells. The Warburg phenotype can also lead on to malignant transformation. The upregulated glycolysis results in increased mitochondrial PT pore hexokinase and cell proliferation producing carcinoma of thyroid and pancreas.

Digoxin can produce sodium-potassium ATPase inhibition and inward movement of plasma membrane cholesterol. This produces defective SREBP sensing, increased HMG CoA reductase activity and cholesterol synthesis[29]. The digoxin induced inward movement of plasma membrane cholesterol can alter membrane cholesterol/sphingomyelin ratio producing modified lipid microdomains[40]. The digoxin induced lipid microdomain modulation can regulate the GPCR couple adrenaline, noradrenaline, glucagon and neuropeptide receptors as well as protein tyrosine kinase linked insulin receptor. This can lead on to CCP. The digoxin mediated inhibition of nuclear membrane sodium-potassium ATPase can modulate nuclear membrane lipid microdomains and thyroxine DNA receptor function. This can lead on to hypothyroidism, increased TSH levels and thyroid gland enlargement contributing to MNG. Digoxin can produce intracellular hypercalcemia and hypomagnesemia. This can lead on to vasospasm and thrombosis. Intracellular hypercalcemia can activate the G-protein coupled thrombin receptor and PAF receptor producing thrombosis. Intracellular magnesium deficiency can lead on to increased thrombin and ADP/collagen induced platelet aggregation. This leads on to the thrombotic state in mucoid angiopathy. The decreased intracellular magnesium can produce ATP synthase inhibition and the increased intracellular calcium can produce mitochondrial PT pore dysfunction. Mitochondrial dysfunction can contribute to decreased glucose utilisation in CCP and myocardial dysfunction in EMF. Digoxin can produce sodium-potassium ATPase inhibition and intracellular hypomagnesemia. The increased tissue rutile load can lead to rutile-magnesium exchange leading on to intracellular hypomagnesemia. Hypomagnesemia can lead on to upregulated connective tissue macromolecular synthesis contributing to MNG, CCP, EMF and mucoid angiopathy. Acidic MPS deposition in the vessel wall leads to a hose pipe narrowing of the entire vascular tree leading on to mucoid angiopathy. Acidic MPS, collagen and elastin deposition of the heart leads to EMF. Hyperdigoxinemia is important in the pathogenesis of EMF, CCP, MNG and mucoid angiopathy. Digoxin induced sodium-potassium ATPase inhibition results in an ATP sparing effect[41]. Eighty percent of the ATP generated is used to run the sodium-potassium ATPase pump. The digoxin inhibition of the sodium-potassium ATPase spares this ATP

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which is then used for lipid and cholesterol synthesis. Fat also fuels insulin resistance by binding to the toll receptor and producing immune activation and immune infiltration of the adipose tissue. Digoxin can also increase lymphocytic intracellular calcium which leads on to induction of NFKB and immune activation[4]. The archaeal cholesterol catabolism can deplete the lymphocytic cell membranes of cholesterol resulting in alteration of lymphocytic cell membrane microdomains related receptors producing immune activation, monocytic infiltration and reparative connective tissue macromolecular deposition.

NMDA can be activated by digoxin induced calcium oscillations, PAH and viroid induced RNA interference[4]. The cholesterol ring oxidase generated pyruvate can be converted by the GABA shunt pathway to glutamate. Glutamatergic transmission can lead to immune activation. Immune activation can lead to reparative connective tissue macromolecular deposition in EMF, CCP, MNG and mucoid angiopathy. The cholesterol aromatase generated serotonin is well-known to produce connective tissue macromolecule especially collagen deposition producing the fibrotic changes in EMF, mucoid angiopathy, MNG and CCP. The archaeal cholesterol aromatase can generate PAH[19]. The PAH can also lead to insulin resistance and CCP. PAH can also inhibit thyroid hormone receptor function contributing to hypothyroidism, increased TSH, thyroid enlargement and MNG. Particulate pollution has been related to vascular thrombosis and can lead to mucoid angiopathy. PAH particles are also known to produce myocardial dysfunction. Thus the actinide, viroid and mevalonate pathway bacteria induced metabolic, genetic, immune and neuronal transmission changes can lead on to endemic EMF, CCP, MNG and mucoid angiopathy. The term archaea and viroid induced endemic cardiovascular and endocrine mucopolysaccharidoses can be used to describe this entity.

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The metal actinides provide radiolytic energy, catalysis for oligomer formation and provide a coordinating ion for metalloenzymes all important in abiogenesis[6]. The metal actinide surfaces would by surface metabolism generate acetate which could get converted to acetyl CoA and then to cholesterol which functions as the primal prebiotic molecule self organizing into self replicating supramolecular systems, the lipid organism[42]. Cholesterol by radiolysis by actinides would have formed PAH generating PAH aromatic organism[8]. Cholesterol radiolysis would generate pyruvate which would get converted to amino acids, sugars, nucleotides, porphyrins, fatty acids and TCA acids. Anastase and rutile surfaces can produce polymerization of amino acids, isoprenyl residues, PAH and nucleotides to generate

the initial lipid organism, PAH organism, prions and RNA viroids which would have symbiosed to generate the archaeal protocell. The archaea evolved into gram negative and gram positive bacteria with a mevalonate pathway which had an evolutionary advantage and the symbiosis of archaea with gram negative organism generated the eukaryotic cell[43]. The data supports the persistence of an actinide and cholesterol based shadow biosphere which throws light on the actinide based origin of life and cholesterol as the premier prebiotic molecule. The presence of placer deposits and mineral sands containing monazite, illmenite, rutile and thorium in the Lemurian supercontinent would have made it the ideal place for the primitive cell, nanoarchaea, eukaryote, multicellular eukaryote, primates and humans to evolve. Anthropological studies have provided evidence for the evolution of primates and homo sapiens in the rift valley of Kenya part of the prehistoric Lemurian continent.

The archaea can synthesize magnetite by biomineralization. The archaeal cholesterol catabolism can generate PAH. The archaea can exist as nanoarchaea and can have calcified nanoforms. The actinidic magnetotactic nanoarchaea and its secreted PAH organisms are extremophiles and survive in the interstellar space and can contribute to the interstellar grains and magnetic fields which play a role in the formation of the galaxies and star systems[44]. The cosmic dust grains occupy the intergalactic space and are thought to be formed of magnetotactic bacteria identified according to their spectral signatures. According to the Hoyle's hypothesis, the cosmic dust magnetotactic bacteria play a role in the formation of the intergalactic magnetic field. A magnetic field equal in strength to about one millionth part of the magnetic field of earth exists throughout much of our galaxy. The magnetic files can be used to trace the spiral arms of the galaxy following a pattern of field lines that connect young stars and dust in which new stars are formed at a rapid rate. Studies have shown that a fraction of the dust particles have elongated shape similar to bacilli and they are systematically lined up in our galaxy. Moreover, the direction of alignment is such that the long axes of the dust tend to be at right angles to the direction of the galactic magnetic field at every point. Magnetotactic bacteria have the property to affect the degree of alignment that is observed. The fact that the magnetotactic bacteria appear to be connected to the magnetic field lines that thread through the spiral arms of the galaxy connecting one region of star formation to another support a role for them in star formation and in the mass distribution and rotation of stars. The nutrient supply for a population of interstellar bacteria comes from mass flows out of supernovas populating the galaxy. Giants arising in the evolution of such stars experience a phenomenon in which material containing nitrogen, carbon monoxide,

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hydrogen, helium, water and trace elements essential for life flows continuously outward into space. The interstellar bacteria need liquid water. Water exists only as vapour or solid in the interstellar space and only through star formation leading to associated planets and cometary bodies can there be access to liquid water. To control conditions leading to star formation is of paramount importance in cosmic biology. The rate of star formation is controlled by two factors. Too high a rate of star formation produces a destructive effect of UV radiation and destroys cosmic biology. Star formation as stated before produces water crucial for bacterial growth. Cosmic biology of magnetotactic bacteria and star formation are thus closely interlinked. Systems like solar systems do not arise in random condensation of blobs of interstellar gas. Only by a rigorous control of rotation of various parts of the system would galaxies and solar system evolved. The key to maintaining control over rotation seems to lie in the intergalactic magnetic field as indeed the whole phenomena of star formation. The intergalactic magnetic fields owes its origin to the lining up of magnetotactic bacteria and the cosmic biology of interstellar bacteria can prosper only by maintaining a firm grip on the interstellar magnetic field and hence on the rate of star formation and type of star system produced. This points to a cosmic intelligence or brain capable of computation, analysis and exploration of the universe at large- of magnetotactic bacterial networks. The origin of life on earth according to the Hoyle's hypothesis would be by seeding of bacteria from the outer intergalactic space. Comets carrying microorganisms would have interacted with the earth. A thin skin of graphitized material around a single bacteria or clumps of bacteria can shield the interior from destruction by UV light. The sudden surge and diversification of species of plants and animals and their equally sudden extinction has seen from fossil records point to sporadic evolution produced by induction of fresh cometary genes with the arrival of each major new crop of comets[45,46]. The interstellar PAH aromatic organism is formed from nanoarchaeal cholesterol catabolism. The PAH and cholesterol are the interconvertible primal prebiotic molecules. PAH aromatic organism and nanoarchaeal magnetite can have a wave-particle existence and bridge the world of bosons and fermions. The nanoarchaea can form biofilms and the PAH aromatic organism can form a molecular quantum computing cloud in the biofilm which forms an interstellar intelligence regulating the formation of star systems and galaxies. The magnetite loaded nanoarchaeal biofilms and PAH aromatic organism quantal computing cloud can bridge the wave particle world functioning as the anthropic observer sensing gravity which orchestrates the reduction of the quantal world of possibilities in to the macroscopic world. The actinide based nanoarchaea can regulate the earth's carbon cycle by methanogenesis, nitrogen cycle by ammonia oxidation and rain formation by

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contributing the seeding nucleus. The earth's temperature and global warming and cooling are regulated by nanoarchaeal synthesized PAH from cholesterol and methanogenesis. The increased nanoarchaeal growth in ocean beds and soil leads to increased methane production and movement of the earth's crust producing tsunamis and massive earthquake leading to catastrophic mass extinction[47]. This nanoarchaeal growth in the Southern ocean and Indian ocean bed due to global warming induced by civilisational progress and human activity would have led to methane burps in the ocean bed contributing to massive earthquakes leading on to tsunamis. This would have led to catastrophic destruction of the Lemurian supercontinent. The migration of the Lemurian survivors into the Indian subcontinent Indus valley, the Nile valley and the Mesopotamian valley would have contributed to the origin of the Harappan, Sumerian and Egyptian civilization which have all evolved during the same period of human history.[48,49] The eternal nanoarchaea survive and start the cycle of evolution once more. The actinide based nanoarchaea regulates the human system and biological universe.

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The coexistence of EMF, CCP and MNG in South India, South Africa, Australia and South America is thus an indirect evidence for the existence of the Lemurian supercontinent containing these landmasses. The actinidic nanoarcheal growth would have led to methane burps in the ocean bed contributing to earthquakes and tsunamis producing extinction of the Lemurian supercontinent. It also supports the abiogenesis on radioactive actinidic beach sands through the process of surface metabolism. This gives support to the role of actinidic archaea as the third element that controls life and its role in the evolution of the multicellular eukaryote, primates and humans. Civilization and humans would have evolved in the placer deposits and actinidic sand rich prehistoric Lemurian supercontinent in the Indian and Southern ocean.[48,49]

The increased incidence of EMF, CCP, MNG and autism in the Nair community and the increased prevalence of the Neanderthal anthropometric features in the Nair community and in EMF, CCP, MNG and autism suggests a Lemurian origin for homo neanderthalis and asuric Dravidian Neanderthal group. This suggests an out of Oceania hypothesis for homo neanderthalis with later migration to the Eurasian landmass consequent to destruction of the supercontinent by tsunamis. The tsunamis would have been precipitated by increased archaeal growth in the oceanic beds and movements in the earth crust produced by released

methane. The homo neanderthalis also originated due to increased endosymbiotic actinidic archaeal growth.

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CHAPTER 43

PANDEMICS AS MEANS OF INTERCOMETARY AND INTERGALACTIC COMMUNICATION AND CONTROL BY THE GIANT INTERGALACTIC BIOLOGICAL QUANTAL COMPUTING MASTER CLOUD - THE EXTRATERRESTRIAL ORIGIN OF THE HUMAN RETROVIRUS, ARCHAEA AND COVID 19 PANDEMICS AND ITS RELATION TO THE DEVELOPMENT OF HUMAN BRAIN AND SPECIES

Microbes and extremophiles may have migrated from star systems and other planets and distributed life around the universe. This constitutes the panspermia mechanism of life on universe. The spacecraft, the meteorites, asteroids can move between planets in the star system as well as structures like oumuamua can move between star systems and can have intergalactic travel. The tapopo mission of the Japanese space agency could send bacteria deinococus up to the Mars and back to the earth supporting the theory that life on earth would have started by panspermia from Mars. Lithopanspermia is a bacteria shielded by an asteroid or comet that can travel around the solar system. Asteroids, comets and oumuamua can contribute to interstellar panspermia and galactic panspermia. Panspermia is the leading cause for evolution of life on earth and changes in human and animal species.

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Extraterrestrial intelligence can exist as a superorganism controlling and creating the universe. In this regard the concept of black cloud of gaseous extraterrestrial superorganism put forward by Fred Hoyle is significant. The black clouds of interstellar gas are made up of hydrogen. There are small pieces of solid matter at the centre and are linked to form a complex neurological system. Clouds have the capacity to increase the brain size and complexity and become intelligent. A network of extraterrestrial porphyrin molecules fits in well with this concept. Porphyrins have got a wave-particle existence and can arise from the quantal foam of gravitational waves and anti-gravitational waves which creates human consciousness and unconsciousness respectively. A large organized self-replicating information system of porphyrins can function as a extraterrestrial intelligent organism. The intelligent black cloud when it finds a lifeless interstellar cloud creates simple brain system by transfer to the lifeless cloud. This gives a lifeless cloud life and intelligence. Black clouds never disappear, never age and never reproduce. Black clouds can communicate with other black clouds by radio wave brain waves. Black clouds need star light to metabolize chemical substances. The porphyrin arrays can utilize light to self-replicate and propagate. Being

clouds of gas the superorganism can assume any shape. When the food supplies of the black cloud in the interstellar space falls the black cloud approaches a star and assumes a disc-like shape to absorb energy from the star. The cloud has to leave the star within a short span of time or it will condense to become the planet of the star. This can be compared to the molecular quantum computing clouds of Tamulis. These are massive immobile extraterrestrial intelligence which sprawls and stretches for hundreds and thousands of miles in the interstellar space. They can be compared with group of neurons which are interconnected. Each node in the network is a brain. This gaseous extraterrestrial intelligence can arise from an emission nebula. An emission nebula is one of the huge clouds of gas and dust that floats around in the interstellar space. In this could chemical molecules of life carbon monoxide, formaldehyde, methanol, hydrogen sulphide, sulphur oxide, sulphur dioxide and hydrogen cyanide are seen. Life arises in this interstellar chemical cloud of gas. Porphyrins arrives which can self-replicate can arise in this chemical interstellar clouds. This creates a superorganism which can form superintelligence. The interstellar gas is mostly made up of hydrogen. The higher dense regions of the interstellar gas can condense to form stars and planets. The coldest clouds form low mass stars and giant molecular clouds forms large mass stars. This form of gaseous extraterrestrial intelligence is seen in atmospheres of other planets in the cloudy organic molecular atmosphere and interstellar space. This fits in with the concepts of human evolution in earth where the protoplasmic body can get converted to the robotic body and then the energy body. The cool or hot interstellar gas can generate networks of extremophilic archaea which can survive on carbon dioxide and hydrogen. They are called the halophilic archaea or the methanogenic archaea. They can live in extremes of cold, heat, acid and pressure. The porphyrin network can form a template for the generation of viroids and prions which can symbioze together to form an archaeal and huge extraterrestrial interstellar gas archaeal network with intelligence can arise. This can condense to generate stars and planets as well as evolving life in planetary systems. The archaeal networks are capable of nuclear fusion and fission reaction and can power star systems like the sun. It is extremely plausible that extraterrestrial intelligence is an interstellar archaeal colony network arising abiogenically on porphyrin templates which can be generated sui generis from the quantal foam of gravitational waves and anti-gravitational waves. The interstellar dust forms stars and planets and the magnetotactic archaea generated intergalactic magnetic fields plays a role in the generation of star and planetary systems. The giant molecular porphyrin clouds and archaeal networks are extraterrestrial intelligence that plays a crucial role in star formation and formation of planetary systems. The extraterrestrial

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intelligence porphyrin network and archaeal network can communicate with any part of the universe by the phenomena of quantal entanglement. Interstellar gas is formed of grains of calcified nanoarchaea. Tamulis has postulated molecular quantal computing clouds that absorb magnetic and light emissions from planet and stars, compute information and move in space by using light pressure. The clouds use photoactive molecules for molecular quantal computing. They can convert light emissions to magnetic flops. The magnetic flops interact and control the central generating elements of 10 quantum bits of the molecular quantum computing clouds. Such clouds can exist in a coherent state at low temperature of the interstellar gas. Porphyrin networks are photoactive molecules and can generate molecular quantal computing clouds which can absorb magnetic and light emissions from planet and stars, compute information and move in space by using light pressure. The porphyrin networks can abiogenically generate archaeal bacterial massive extraterrestrial network intelligence. This formless mass living in space obtains its energy from the light of the stars and communicates with itself and other forms of lights by radio waves. The interstellar gas is analogous to blood, the heart and kidneys and are electromagnetic. There is a complex neurological system of this brain. This cloud of interstellar gas porphyrin networks and archaeal colonies can convert into stars and planetary system by condensation. The energetics for star systems comes from biological fusion and fission reaction occurring in archaeal networks. The archaeal networks of extraterrestrial intelligence can engineer changes in human mind and civilization. The life on earth would have evolved by transfer of extraterrestrial archaea and RNA viroids through meteorites and cometic hits. Life in the intergalactic space would have evolved out of porphyrinogensis and their networks. The diversity of bacteria and viruses evolving in the intergalactic space would be phenomenally diverse. The interstellar biological quantal computing cloud of porphyrions, viroids, prions and archaea would have generated extremophilic archaeaons which would have reached the earth by cometary and meteorite impacts. The archaeaons would have formed multicellular organisms which would have evolved into homo neanderthalis eventually. The archaeaons can also generate viruses and other bacteria in earth. The homo neanderthalis would have evolved by complex evolution of multicellular structures arising out of the extraterrestrial archaeaons from the intergalactic giant biological quantal computing cloud by cometary and meteoric impacts. This first symbiotic epoch derived from archaea generated from the extraterrestrial giant quantal computing intergalactic biological cloud would have led to life on earth, speciation and evolution of homo neanderthalis. The archaea are endosymbiotic and mutate into cellular organelle called archaeaons which can catabolize cholesterol, neuroidelle

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which can produce neurotransmitters by the shikimic acid pathway, vitaminocyte which can generate vitamin C, steroidelle which can generate digoxin producing neuro-immuno-endocrine integration, transmutoid which can produce biological transmutation, fructosoid involved in fructose metabolism and glycosaminoglycoid involved in connective tissue metabolism. The archaeaons become organelle of the cell.

The homo neanderthalis and homo sapien species evolved as basically visitations of extraterrestrial intelligence as archaeal and RNA viroidal colonies. The homo neanderthalis is an evolved archaeal colony network. The archaea extrudes RNA viroids. The homo sapien species is extraterrestrial RNA viroidal dominant with RNA viroids integrated into the genomic DNA. The organization of race and caste system in India points to such an origin. The homo neanderthalic species had an initial habitation in the Indian ocean continent which had a catastrophic extinction by archaeal expansion in the ocean crust which generated dangerous tsunamis during ice age. The Neanderthals migrated to the Eurasian landmass creating the civilization of Harappa, Sumeria and Egypt. They are the asuras of Rig veda. The homo neanderthalic species are fair, matrilineal, asexual, spiritual, altruistic and community organized. These civilizations were basically matrilineal and creative. They were paganistic, secular and atheistic. They were environmentally conscious living in quantal interaction with the world around creating a feeling of environmental spiritual consciousness. The society formed on this basis functioned as an organic whole in quantal interaction with one another. It was equal, just and functioned as primitive form of socialistic society. The homo neanderthalis species was essentially asexual with the gender equality and matrilinearity. The archaeal overgrowth consequent to global warming can lead to eventual neanderthalisation of the human species and brain. The brain neuronal cortex shrinks due to quantal perception of electromagnetic fields which pollute the globalized warm world. There is also consequent cerebellar hypertrophy. Cerebellar hypertrophy can lead on to schizophrenia and autistic modes of behavior. Cerebellar hypertrophy can lead to cerebellar dysfunction and motor ataxia. The motor ataxia and the clumsiness of movement and speech would have lead to the evolution of abstract painting, dance, music, symbolic speech and eventually speech in the Neanderthals. The neanderthalisation of the human brain consequent to global warming leads to evolution of rock music, dance and modern forms of abstract painting. The Neanderthal brain owing to magnetite mediated increased quantal perception are more spiritual. The Neanderthal community owing to quantal perception functions as one single whole leading to altruism, spirituality, socialism, gender equality and ecospirituality. This represents the

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civilisational mode of the eastern world. The societies emerged from the possible Lemurian landmass. As they evolved out of extraterrestrial archaeal colonies and intelligence their level of development and intelligence was high. They possessed the original language and the concept of a human godhead was developed first in their civilization. The Rig veda is the oldest spiritual book of humankind. Most of the gods described in Rig veda were of asuric origin even Varuna, the principal God. The major philosophical entities of Buddhism and Jainism which are basically atheistic religions preaching social equality, oneness and justice were evolved by the asuras.

The quantal wave form or the Higgs field gives mass and energy to the particles like protons, neutrons and electrons when it interacts with it. The quantal wave forms can generate porphyrins. Porphyrins can have a macromolecular and wave existence which is interconvertible. The porphyrin arrays can self organize and self reproduce. The macromolecular porphyrin arrays would have functioned as intelligent organisms in the interstellar space. The iron porphyrins can undergo photooxidation and generate a magnetic field. The photonic interaction with the magnetic porphyrins can generate black holes which can collapse to a point before singular density. At this point of time it can undergo rebounce producing new universes. The porphyrin organism with its quantal computing function served as the initial anthropomorphic observer or the lotus of Brahma. The porphyrins would have formed a template for RNA viroids and prions to form. This would have generated primitive archaeal forms. The primitive archaeal cell can extrude RNA viroids generating RNA viroidal clouds. The intergalactic magnetic field generated by the archaea and magnetic porphyrin organism would have contributed to the evolution of star systems and galaxies. The archaeal clouds and RNA viroidal clouds would have served as interstellar intelligence guiding the formation of star systems and galaxies and also functioning as anthropomorphic observers. The meteoritic impacts would have transferred the archaeal and RNA viroidal colonies to earth. They would have self organized into plant and animal species as well as homo sapien and homo neanderthalic species. The homo neanderthalic species are archaeal dominant. The homo sapien species are RNA viroidal/retroviral dominant.[1-16]

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The big-bang cosmology postulates the evolution of the universe from the Higgs field. Higgs field is made up of Higgs Boson and top quarks. Higgs Boson can exists in two states. The stable state which is of high energy, low density compatible with the present existence of universe and the unstable state which is of low energy and high density. The universe is presently in the edge of the stable state. The low energy high density state is unstable and can

cause catastrophic vacuum expansion leading to the end of the universe. The Frohlich model of quantal brain function postulates the existence of Bose-Einstein's condensate in the brain at normal temperature. There are dipolar magnetite and porphyrin molecules in the brain which in the context of membrane sodium-potassium ATPase inhibition can lead on to a pumped phonon system producing Bose-Einstein's condensate and bosons in the brain. This boson can become unstable leading on to catastrophic vacuum collapse and the possible extinction of the universe. The Frohlich model of Bose-Einstein's condensate formed of magnetic dipolar porphyrins and archaeal magnetite in cellular lipid emulsions can interact with photons generating black holes. This black hole can collapse to singularity. But the collapse happens only upto a particular point following which the density or singularity undergoes a rebounce producing a new universe with a new set of universal constants. Thus the quantal model of brain function can lead on to the destruction and reproduction of universes. The brain can be considered to be a multicellular quantal computing archaeal network in the case of homo neanderthalis. The synaptic networks of the brain parallel the galactic networks of biological quantal computing cloud of the universe. The brain functions as the universal quantal computer and anthropomorphic observer creating and destroying as well as reproducing universes. This occurs to a lesser extent in the homo sapien brain.[1-16]

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The homo neanderthalic society owing to increased quantal perception is spiritual and feels the oneness of the world and the godliness of individual human beings. This leads on to the philosophy of Buddhism with its sense of atheism and human values. Buddhism and Jainism as well as the Mauryan empire represents victory for the asuric Neanderthals or the Shudras. The Buddhist and Hindu society of neanderthalic world considered good and evil as part of the same quantal world representing the universal soul. The godhead and the fallen angel belong to the same quantal world of the universal soul. The concept of right and wrong are not absolute contraindications but part of the same quantal world. The quantal perception produces information storage after mortality and the idea of reincarnation. The increased world of quantal perception mediated oneness and the cholesterol catabolizing archaeal overgrowth leading to sex hormone deficiency produces the gender equal asexual world. Sexuality is not considered as something apart from religion as evidenced by the tantric schools of Hinduism and Buddhism. It was considered as a form of experiencing oneness as indicated by ideas such as Kundalini. The increased quantal perception leads to a feeling of oneness which produces universal unity. There is no war but universal peace. Eastern societies like China and India are basically quantal docile societies with war being

uncommon. The major wars in Hindu history like the Mahabharata and Ramayana war were those between the colonizing homo sapien devas and the native peaceful Neanderthals. The Pandava army were the homo sapien devas and the Kaurava army the neanderthalic natives. The God Rama was the head of homo sapien devas and the Ravana the leader of the native Neanderthals. The devas were the head of the colonizing homo sapiens from Europe. They could win the Mahabharata and Ramayana wars and the sudric neanderthalic native population was rendered to slavery for generation to come. The independence struggle and Gandhi's attitude to the lower caste and Harijans were a part of the same phenomenon. The homo sapien world on the other hand, due to reduced quantal perception was individualistic. Good and evil were absolutely different as the God and the fallen angel. There was no belief in reincarnation and sexuality was considered as taboo. The homo sapien society owing to its reduced quantal perception and individualistic nature discovered wars and slavery. Wars are essentially a feature of semitic societies and religion. The homo sapien Devas are capitalistic and rightist in their attitude to society while the homo neanderthalis is communistic and socialistic. The war between capitalism and socialism is representative of that between Neanderthals and homo sapiens. The phenomena of global warming, archaeal overgrowth and neanderthalisation of homo sapiens will lead to a more peaceful, globalized, spiritual, gender equal and altruistic society. But the Neanderthal domination resulting from global warming can lead to the society's own demise.[1-16]

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The phenomena of climate change and global warming leads on to archaeal multiplication and neanderthalisation of the human race. Archaeal growth occurs in extremes of climate- the ice age and in times of global warming. This results in a return to asuric culture and civilization with its spiritual, environmentally conscious, socialistic, asexual and group identity. The modern world is represented by the Kali yuga where the Shudras or the Neanderthals return to a position of power and global significance. This represents the rise of the asuric neanderthalic sudric Slaves. This is represented by the rise of neanderthalic eastern societies of China and India as well as the decline of the homo sapien West and Africa. The neanderthalisation of homo sapiens due to archaeal growth can lead to human disease and eventual extinction. The archaea catabolizes cholesterol to generate digoxin. Digoxin functions as the neanderthalic hormone. Digoxin produces membrane sodium-potassium ATPase inhibition and increased intracellular calcium and reduced magnesium. Magnesium deficiency leads to mitochondrial dysfunction, vasospasm, dyslipidemia and metabolic syndrome X. The increase in intracellular calcium leads to oncogene activation and

malignancies. The increase in intracellular calcium can activate NFKB leading to immune activation and autoimmune disease. The increased intracellular calcium can activate the caspase cascade leading on to cell death and degenerations. The increase in intracellular calcium can increase synaptic release of monoamine neurotransmitters producing schizophrenia and autism. The increase in archaeal growth can produce the Warburg phenotype with increased glycolysis and mitochondrial dysfunction. The increased glycolysis can activate the lymphocyte producing autoimmune disease as lymphocytes are dependent on glycolysis for energy needs. The cancer cells also depend on glycolysis for energy needs. The Warburg phenotype can lead on to increase in malignancies. The Warburg phenotype and increased glycolysis can lead to poly ribosylated glyceraldehyde 3-phosphate dehydrogenase mediated cell death and degeneration. The Warburg phenotype can lead to magnesium deficiency related insulin resistance and mitochondrial dysfunction leading to schizophrenia. Thus archaeal mediated hyperdigoxinemia and Warburg phenotype can lead to civilisational diseases in the Neanderthal phenotype leading on to its extinction. The archaeal overgrowth in the ocean crust owing to global warming can lead to release of large amounts of methane producing oceanic earthquakes, tsunamis and destruction and splitting up of continents. This leads on to the catastrophic end of the world. As also the archaeal porphyrin and magnetite mediated Frohlich model of Bose-Einstein's condensate in the brain generated bosons can undergo catastrophic vacuum decay leading to universal extinction. The magnetic dipolar porphyrins and magnetite in the lipid emulsion of brain cells can be photonically excited generating black holes. These black holes do not reach absolute singularity, but near that point can undergo a phenomenon called rebounce reproducing the universe. Thus the neanderthalisation of human brain and generation of Bose-Einstein's condensate of the Frohlich model can lead to extinction and reproduction of the universe.[1-16]

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The retrovirus would also have a extraterrestrial origin from the giant intergalactic biological quantal computing cloud and the cometary retroviral genes reached the earth via meteoric and cometary impacts. This second symbiotic epoch would have led to the evolution of homo sapiens. The interstellar space is filled with star dust which is postulated to be of biological origin. Fred Hoyle in his hypothesis of the life cloud has put forward an extraterrestrial origin for life on earth. The existence of an extraterrestrial force controlling the genesis and evolution of life on earth has been put forward by many authors. The biocosm theory postulates that the conditions in the universe have been so adjusted to make it possible for life to exist on earth and the universe. This leads to the postulate that the universe exists

and reproduces because of life which acts as a quantal observer. This paper deals with the role of extremophilic archaea and RNA viroids from extracellular space or extruded from the archaeal cells as primitive anthropomorphic observers making it possible for the universe to exists and evolve. The human race is divided into two species homo sapiens and homo neanderthalis. The homo neanderthalis interbred with homo sapiens to produce a hybrid species. Therefore there are species with more of neanderthalic origin and homo sapien species in earth. The previous studies have demonstrated matrilineal societies with more of neandethalic origin in contrast to patrilineal societies. The origin of neanderthalic societies and homo sapien communities was ascribed to symbiosis. The Neanderthal species has more of extremophilic archaeal symbiosis occurring in the extremes of climate like the ice age and global warming. The homo sapien species has more of intragenomic RNA viroid/retroviral symbiosis which contribute to the dynamicity of the homo sapien genome. The Neanderthal species were retroviral resistant. The origin of the archaea and the RNA viroids are possibly from the interstellar space as archaeal clouds and RNA viroidal quantal computing clouds which function as extraterrestrial intelligence. The RNA viroids are extruded by archaeal cells. They would have reached the earth via meteoroidal impacts and seeded life on earth. The archaeal colonies would have organized into the homo neanderthalic species in Eurasia and RNA viroidal colonies or retroviral colonies would have led to the evolution of homo sapien species in Africa.

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The retrovirus would have come down via meteoritic and cometic impacts on to the earth. The retrovirus would have formed in the giant quantal computing porphyrinogenic intergalactic cloud. Retroviruses can infect multicellular organisms producing an infection. The seeding of retroviruses would have led to the killing of homo neanderthalis and remnant homo neanderthalis would have remained in protective enclaves and South India, Iberian peninsula, Northern Europe and Siberia. The retroviral pandemic of extraterrestrial origin would have changed the homo neanderthalis species to the homo sapien species. The homo neanderthalis species endosymbiotic archaea lack retroviruses and only a few have been described in extremophilic archaea. The arc gene serves as the master regulator that determines how neuronal synapses form in the brain. Arc behaves like viruses and has the ancestery in retroviruses. The arc gene moulds and sculpts the brain connections making human think as humans and monkeys as monkeys. These processes underly brain in phenomena ranging from classical operant conditioning in humans to human cognition and recognition of self. Classical operant conditioning is a form of behavioural learning. If the arc

gene is absent the brain development is jeoparadised. Patients without arc gene become autistic. Mice without arc gene can not learn new knowledge due to faulty synaptic connections in the brain. The arc gene negative mice do not remember anything. This leads us to the question whether memory is a virus? The arc gene is equivalent to the gag gene of the retroviruses including HIV and lenti viruses. Gag retroelement retroposons during evolution mediate intercellular communication in the nervous system. Retroelements are known as jumping genes and are capable of integration into the genome of other organisms. Most complicated physiological functions have evolved due to retroelements- placentation and the human brain. The arc is present in land animals and not in marine animals. The land animal have to adapt and needed a most smart and plastic brain. Arc gene contributes to plasticity. The arc gene carries information which in action has to be passed off one neuron to another through neuronal synapses so that they know where to connect. This information is called mRNA that instructs the neuron what to do. Upon receiving the arc mRNA the neuron does something unseen in mRNA of other proteins. The arc mRNA gives instructions for building of capsids that give the outer shell of the virus. The capsid enables the arc gene safely move around the extracellular space and enter into another neuron passing on its arc mRNA. The receiving neuron also does the same. All neuronal connections form one synapse after another in this manner. Arc genes activity in the brain is similar to the viral infection of the brain. Virus makes protective capsids around it to move around and infect other cells. It resembles how the virus integrate the genetic elements into the infected cells. It resembles how virus instructs infected cells to make more copies of the same virus. Arc gene via capsid formation functions exactly like a viral infection of the cell. Infected neurons receive instructions from synapsis. The picture is similar to HIV infection of the human brain. Thus the extraterrestrial retroviruses which infected and exterminated the homo neanderthalic population except in certain enclaves produce changes in the surviving homo neanderthalis which became homo sapiens consequent to retroviral modulation of brain synaptic connections. The extraterrestrial retrovirus which infected the human homo neanderthalic population producing a disease and creating survival of the host was the basis of homo sapien evolution. The retrovirus increased the dynamicity and flexibility of the human synaptic connections and led to the evolution of the human dominant cerebral cortex the site for reasoning, logic and civil society. The retroviruses made us human. The mRNA has the capability to store genetic information. The transfer RNA and ribosomal RNA have the ability to transmit genetic information to proteins. RNA can act as their own enzymes to self edit their own genetic code. RNA has great capabilities as genetic molecule and can control

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things on its own creating the primitive RNA world. The retroviruses modulated the primitive homo sapiens following an extraterrestrial RNA retroviral pandemic. Later on, for stability double stranded RNA and RNA/DNA hybrids were created. Thus the extraterrestrial retroviral pandemic which came via meteoric and cometic impacts from the interstellar giant quantal computing cloud wiped out the homo neanderthalis except in few enclaves and led to the evolution of the human cerebral cortex and domination of homo sapiens on earth. Retroviral infections have been detected in hundreds of humans and they have become negative without treatment. Human HIV infection is due to expression of the human endogenous retroviral parts of the genome in the non-coding region which got integrated into the human genome during the retroviral pandemic with its origin in the extraterrestrial quantal computing cloud. The human endogenous retroviral particles that gets expressed due to stress and free radical attack. This can get encapsulated in human cell membranes producing viral particles which have a gag gene akin to the arc gene involved in sculpting synapses. The human generated HERV vesicles behave like HIV virus and HIV infection is endogenous in origin. Human generated HERV vesicles are involved in normal structuring and sculpting of synapses in the brain.

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The homo sapiens evolved in Africa and migrated to the Eurasian landmass. They had basically an RNA viroidal symbiosis in the brain which gave rise to a practical less creative brain. The homo sapien species are patrilineal, commonsensical and individualistic. The homo sapien community forms the devas of the vedic literature and the Rig veda describes clashes and wars between the asuric inhabitants of Harappa and the invading Devas. They over ran the neanderthalic civilizations and created a racial society with the homo sapiens as the ruling class and the Neanderthals as the under caste of Shudras. The Shudras formed the discriminated underbelly of the civilization. The literature, language and holy books of the asuras were taken over by the uncivilized homo sapienic devas who made it into their own. The future generations of Shudras were prevented from learning their language and worshiping their Gods which were taken over by the homo sapienic devas. The homo sapienic Devas were theistic, individualistic, unaltruistic and had no communal or societal consciousness. This signifies the civilisational mode of the western world. The archaeal growth in homo sapiens is less. This leads on to less of magnetite mediated quantal perception and universal oneness. This contributes to the individuality, selfishness, unaltruistic behavior, unbridled capitalism and the patriarchal gender unequal society of the homo sapien world.[1-16]

The second possibility is that life on earth would have evolved abiogenetically on metal actinide surfaces with cholesterol as the primitive prebiotic molecule. Metal actinides in beach sands have been postulated to play a role in abiogenesis[6]. Actinide mineral like rutile, monazite and illmenite by surface metabolism would have contributed to abiogenesis[9]. A hypothesis of cholesterol as the primal prebiotic molecule synthesized on actinide surfaces with all other biomolecules arising from it and a self replicating cholesterol lipid organism as the initial life form is presented. The actinidic archaea and viroids would have evolved from the primitive isoprenoid organism. The origin of viruses, prokaryotes, eukaryotes, primates and humans from the initial isoprenoid organism derived actinidic archaea is postulated. The following groups were included in the study:- endomyocardial fibrosis, Alzheimer's disease, multiple sclerosis, non-Hodgkin's lymphoma, metabolic syndrome X with cerebrovascular thrombosis and coronary artery disease, schizophrenia, autism, seizure disorder, Creutzfeldt Jakob's disease and acquired immunodeficiency syndrome. There were 10 patients in each group and each patient had an age and sex matched healthy control selected randomly from the general population. The blood samples were drawn in the fasting state before treatment was initiated. Plasma from fasting heparinised blood was used and the experimental protocol was as follows:- (I) Plasma+phosphate buffered saline, (II) same as I+cholesterol substrate, (III) same as II+rutile 0.1 mg/ml, and (IV) same as II+ciprofloxacine and doxycycline each in a concentration of 1 mg/ml. Cholesterol substrate was prepared as described by Richmond[10]. Aliquots were withdrawn at zero time immediately after mixing and after incubation at 37 ^{o}C for 1 hour. The following estimations were carried out:- Cytochrome F420, free RNA, free DNA, muramic acid, polycyclic aromatic hydrocarbon, hydrogen peroxide, serotonin, pyruvate, ammonia, glutamate, cytochrome C, hexokinase, ATP synthase, HMG CoA reductase, digoxin and bile acids[11-14]. Cytochrome F420 was estimated flourimetrically (excitation wavelength 420 nm and emission wavelength 520 nm). Polycyclic aromatic hydrocarbon was estimated by measuring hydrogen peroxide liberated by using glucose reagent. The statistical analysis was done by ANOVA.The parameters checked as indicated above were:- cytochrome F420, free RNA, free DNA, muramic acid, polycyclic aromatic hydrocarbon, hydrogen peroxide, serotonin, pyruvate, ammonia, glutamate, cytochrome C, hexokinase, ATP synthase, HMG CoA reductase, digoxin and bile acids. Plasma of control subjects showed increased levels of the above mentioned parameters with after incubation for 1 hour and addition of cholesterol substrate resulted in still further significant increase in these parameters. The plasma of patients showed similar results but the extent of increase was more. The addition of antibiotics to the control plasma caused a decrease in all the parameters

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while addition of rutile increased their levels. The addition of antibiotics to the patient's plasma caused a decrease in all the parameters while addition of rutile increased their levels but the extent of change was more in patient's sera as compared to controls. The results are expressed in tables 1-7 as percentage change in the parameters after 1 hour incubation as compared to the values at zero time. There was increase in cytochrome F420 indicating archaeal growth. The archaea can synthesize and use cholesterol as a carbon and energy source[15,16]. The archaeal origin of the enzyme activities was indicated by antibiotic induced suppression. The study indicates the presence of actinide based archaea with an alternate actinide based enzymes or metalloenzymes in the system as indicated by rutile induced increase in enzyme activities[17]. There was also an increase in archaeal HMG CoA reductase activity indicating increased cholesterol synthesis by the archaeal mevalonate pathway. The archaeal beta hydroxyl steroid dehydrogenase activity indicating digoxin synthesis and archaeal cholesterol hydroxylase activity indicating bile acid synthesis were increased[7]. The archaeal cholesterol oxidase activity was increased resulting in generation of pyruvate and hydrogen peroxide[16]. The pyruvate gets converted to glutamate and ammonia by the GABA shunt pathway. The archaeal aromatization of cholesterol generating PAH, serotonin and dopamine was also detected[18]. The archaeal glycolytic hexokinase activity and archaeal extracellular ATP synthase activity were increased. The archaea can undergo magnetite and calcium carbonate mineralization and can exist as calcified nanoforms

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Life on earth would also have evolved abiogenetically on actinide surfaces. The metal actinides provide radiolytic energy, catalysis for oligomer formation and provide a coordinating ion for metalloenzymes all important in abiogenesis[6]. The metal actinide surfaces would by surface metabolism generate acetate which could get converted to acetyl CoA and then to cholesterol which functions as the primal prebiotic molecule self organizing into self replicating supramolecular systems, the lipid organism[8,9,20]. Cholesterol by radiolysis by actinides would have formed PAH generating PAH aromatic organism[8]. Cholesterol radiolysis would generate pyruvate which would get converted to amino acids, sugars, nucleotides, porphyrins, fatty acids and TCA acids. Anastase and rutile surfaces can produce polymerization of amino acids, isoprenyl residues, PAH and nucleotides to generate the initial lipid organism, PAH organism, prions and RNA viroids which would have symbiosed to generate the archaeal protocell. The archaea evolved into gram negative and gram positive bacteria with a mevalonate pathway which had an evolutionary advantage. The symbiosis of archaea with gram negative organism generated the eukaryotic cell[21]. The data supports the

persistence of an actinide and cholesterol based shadow biosphere which throws light on the actinide based origin of life and cholesterol as the premier prebiotic molecule.

There was an increase in free RNA indicating self replicating RNA viroids and free DNA indicating generation of viroid complementary DNA strands by archaeal reverse transcriptase activity. The actinides modulate RNA folding and catalyse its ribozymal action. Digoxin can cut and paste the viroidal strands by modulating RNA splicing generating RNA viroidal diversity. The viroids are evolutionarily escaped archaeal group I introns which have retrotransposition and self splicing qualities. Archaeal pyruvate can produce histone deacetylase inhibition resulting in endogenous retroviral (HERV) reverse transcriptase and integrase expression. This can integrate the RNA viroidal complementary DNA into the non-coding region of eukaryotic non-coding DNA using HERV integrase as has been described for borna and ebola viruses[21]. The non-coding DNA is lengthened by integrating RNA viroidal complementary DNA with the integration going on as a continuing event. The archaea genome can also get integrated into human genome using integrase as has been described for trypanosomes. The integrated viroids and archaea can undergo vertical transmission and can exist as genomic parasites. This increases the length and alters the grammar of the non-coding region producing memes or memory of acquired characters. The viroidal complementary DNA can function as jumping genes producing a dynamic genome.[22-24]

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The presence of muramic acid, HMG CoA reductase and cholesterol oxidase activity inhibited by antibiotics indicates the presence of bacteria with mevalonate pathway. The bacterial with mevalonate pathway include streptococcus, staphylococcus, actinomycetes, listeria, coxiella and borrelia. The bacteria and archaea with mevalonate pathway and cholesterol catabolism had an evolutionarily advantage and constitutes the isoprenoidal clade organism. The archaea evolved into mevalonate pathway gram positive and gram negative isoprenoid clade organism through horizontal gene transfer of viroidal and virus genes. The isoprenoidal clade prokaryotes develop into other groups of prokaryotes via viroidal/virus as well as eukaryotic horizontal gene transfer producing bacterial speciation[25-27]. The RNA viroids and its complementary DNA developed into cholesterol enveloped RNA and DNA viruses like herpes, retrovirus, influenza virus, borna virus, cytomegalo virus and epstein barr virus by recombining with eukaryotic and human genes resulting in viral speciation. Bacterial and viral species are ill defined and fuzzy with all of them forming one common genetic pool

with frequent horizontal gene transfer and recombination. Thus the archaea would have evolved into prokaryotes and eukaryotes as well as given origin to the various viruses.

Thus the multi and unicellular eukaryote with its genes serves the purpose of prokaryotic and viral speciation. The multicellular eukaryote developed so that their endosymbiotic archaeal colonies could survive and forage better. The multicellular eukaryotes are like bacterial biofilms. The archaea and bacteria with a mevalonate pathway uses the extracellular RNA viroids and DNA viroids for quorum sensing and in the generation of symbiotic biofilm like structures which develop into multicellular eukaryotes. The endosymbiotic archaea and bacteria with mevalonate pathway still uses the RNA viroids and DNA viroids for the regulation of multicellular eukaryote. An actinide dependent shadow biosphere of archaea and viroids in the above mentioned disease states is described. Metal actinides in beach sands have been postulated to play a role in abiogenesis. Cholesterol is the primal prebiotic molecule synthesized on actinide surfaces with all other biomolecules arising from it. A self replicating cholesterol lipid organism could be the initial life form. A cholesterol based abiogenesis is a more likely evolutionary option and the actinidic archaea and viroids would have evolved from it. The origin of viruses, prokaryotes, eukaryotes, primates and humans from the initial isoprenoid organism derived actinidic archaea is discussed. This multicellular eukaryote would have evolved into animals, plants, and human species especially homo neanderthalis. The homo neanderthalis was characterized by endosymbiotic archaea.

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The COVID 19 virus would also have its origin in the giant intergalactic biological quantal computing cloud and has reached the earth by cometary or meteoric impacts. The COVID 19 virus as impacted and infected the majority of the world population. The corona virus is possibly an extraterrestrial virus which came into earth following a meteoric impact in Wuhan region of China and circulates in the stratosphere of earth directed by winds in the latitudinal region N 40-70. The universe is biological in origin. The metal actinides provide radiolytic energy, catalysis for oligomer formation and provide a coordinating ion for metalloenzymes all important in abiogenesis. The metal actinide surfaces would by surface metabolism generate porphyrins from simple compounds like succinic acid and glycine. Porphyrins can exist as wave forms and particulate forms and can bridge the dividing line between the quantal world and particulate world. Porphyrin molecules can self organize into organisms with energy transduction, ATP synthesis and information storage with replicating capacity. A self replicating porphyrin microorganism may have played a role in the origin of

life. Porphyrins can form templates on which macromolecules like polysaccharides, protein and nucleic acids can form. The macromolecules generated on actinidic porphyrins templates would have contributed to the actinidic nanoarchaea and the original organisms on earth. The data supports the persistence of an actinidic archaeal shadow biosphere which throws light on the actinide based origin of life and porphyrins as the premier prebiotic molecule.

Porphyrins play an important role in the genesis of the biological universe. The porphyrin macroarrays can form in the interstellar space on its own as porphyrins can exist both as particles and waves. Porphyrins form the bridging connection between the quantal world and the particulate world. The self generated porphyrins from the quantal foam can self organize to form macroarrays, can store information and self replicate. This can be called as an abiotic porphyrin organism. The porphyrin template would have generated nucleic acids, proteins, polysaccharides and isoprenoids. This would have generated actinidic nanoarchaea in the interstellar space. The porphyrins have magnetic properties and the interstellar porphyrin organism can contribute to the interstellar grains and interstellar magnetic fields.[37] The cosmic dust grains of porphyrin macroarrays/nanoarchaeal organism occupy the intergalactic space and are thought to be formed of magnetotactic bacteria identified according to their spectral signatures. According to the Hoyle's hypothesis, the cosmic dust magnetotactic porphyrin macroarrays/nanoarchaeal organism plays a role in the formation of the intergalactic magnetic field. A magnetic field equal in strength to about one millionth part of the magnetic field of earth exists throughout much of our galaxy. The magnetic files can be used to trace the spiral arms of the galaxy following a pattern of field lines that connect young stars and dust in which new stars are formed at a rapid rate. Studies have shown that a fraction of the dust particles have elongated shape similar to bacilli and they are systematically lined up in our galaxy. Moreover, the direction of alignment is such that the long axes of the dust tend to be at right angles to the direction of the galactic magnetic field at every point. Magnetotactic porphyrin macroarrays/nanoarchaeal organisms have the property to affect the degree of alignment that is observed. The fact that the magnetotactic porphyrin macroarrays/nanoarchaeal organisms appear to be connected to the magnetic field lines that thread through the spiral arms of the galaxy connecting one region of star formation to another support a role for them in star formation and in the mass distribution and rotation of stars. The nutrient supply for a population of interstellar porphyrin macroarrays/nanoarchaeal organisms comes from mass flows out of supernovas populating the galaxy. Giants arising in the evolution of such stars experience a phenomenon in which material containing nitrogen,

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carbon monoxide, hydrogen, helium, water and trace elements essential for life flows continuously outward into space. The interstellar organisms need liquid water. Water exists only as vapour or solid in the interstellar space and only through star formation leading to associated planets and cometary bodies can there be access to liquid water. To control conditions leading to star formation is of paramount importance in cosmic biology. The rate of star formation is controlled by two factors. Too high a rate of star formation produces a destructive effect of UV radiation and destroys cosmic biology. Star formation as stated before produces water crucial for organism growth. Cosmic biology of magnetotactic organisms and star formation are thus closely interlinked. Systems like solar systems do not arise in random condensation of blobs of interstellar gas. Only by a rigorous control of rotation of various parts of the system would galaxies and solar system evolved. The key to maintaining control over rotation seems to lie in the intergalactic magnetic field as indeed the whole phenomena of star formation. The intergalactic magnetic fields owes its origin to the lining up of magnetotactic porphyrin macroarrays/nanoarchaeal organisms and the cosmic biology of interstellar organisms can prosper only by maintaining a firm grip on the interstellar magnetic field and hence on the rate of star formation and type of star system produced. This points to a cosmic intelligence or brain capable of computation, analysis and exploration of the universe at large- of magnetotactic porphyrin macroarrays/nanoarchaeal organism networks. The origin of life on earth according to the Hoyle's hypothesis would be by seeding of porphyrin macroarrays/nanoarchaeal organism from the outer intergalactic space. The porphyrin organism can also be generated on actinidic surfaces in earth. Comets carrying porphyrin organisms would have interacted with the earth. A thin skin of graphitized material around a single porphyrin macroarrays/nanoarchaeal organism or clumps of organism can shield the interior from destruction by UV light. The sudden surge and diversification of species of plants and animals and their equally sudden extinction has seen from fossil records point to sporadic evolution produced by induction of fresh cometary genes with the arrival of each major new crop of comets[38,39]. The porphyrin macroarrays organism can have a wave-particle existence and bridge the world of bosons and fermions. The porphyrin macroarrays/nanoarchaeal organism can form biofilms and the porphyrin organism can form a molecular quantum computing cloud in the biofilm which forms an interstellar intelligence regulating the formation of star systems and galaxies. The porphyrin macroarrays/nanoarchaeal organism quantal computing cloud can bridge the wave-particle world functioning as the anthropic observer sensing gravity which orchestrates the reduction of the quantal world of possibilities in to the macroscopic world. The actinide based

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porphyrin macroarrays/nanoarchaeal organism regulates the human system and biological universe.[19-21]

Porphyrins also have evolutionary significance since porphyria is related to Scythian races and contributes to the behavioural and intellectual characteristics of this group of population. Porphyrins can intercalate into DNA and produce HERV expression. HERV RNA can get converted to DNA by reverse transcriptase which can get integrated into DNA by integrase. This tends to increase the length of the non-coding region of the DNA. The increase in non-coding region of the DNA is involved in primate and human evolution. Thus, increased rates of porphyrin synthesis would correlate with increase in non-coding DNA length. The alteration in the length of the non-coding region of the DNA contributes to the dynamic nature of the genome. Thus genetic and acquired porphyrias can lead to alteration in the non-coding region of the genome. The alteration of the length of the non-coding region of the DNA contributes to the racial and individual differences in populations. An increased length of non-coding region as well as increased porphyrin synthesis leads to increased cognitive and creative neuronal function. Porphyrins are involved in quantal perception and regulation of the thalamo-cortico-thalamic pathway of conscious perception. Thus genetic and acquired porphyrias contribute to higher cognitive and creative capacity of certain races. Porphyrias are common among Eurasian Scythian races who have assumed leadership roles in communities and groups. Porphyrins have contributed to human and primate evolution.[3,4]

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The dipolar porphyrins, PAH and archaeal magnetite in the setting of digoxin induced sodium-potassium ATPase inhibition can produce a pumped phonon system mediated Frohlich model superconducting state inducing quantal perception with nanoarchaeal sensed gravity producing the orchestrated reduction of the quantal possibilities to the macroscopic world. ALA can produce sodium-potassium ATPase inhibition resulting in a pumped phonon system mediated quantal state involving dipolar porphyrins. Porphyrins by autooxidation can generate biophotons and are involved in quantal perception. Biophotons can mediate quantal perception. Cellular porphyrins photooxidation are involved in sensing of earth magnetic fields and low level biomagnetic fields. Porphyrins can thus contribute to quantal perception. Low level electromagnetic fields and light can induce porphyrin synthesis. Low level EMF can produce ferrochelatase inhibition as well as heme oxygenase induction contributing to heme depletion, ALA synthase induction and increased porphyrin synthesis. Light also induces ALA synthase and porphyrin synthesis. The increased porphyrin synthesized can contribute to increased quantal perception and can modulate conscious

perception. The porphyrin induced biophotons and quantal fields can modulate the source from which low level EMF and photic fields were generated. Thus the porphyrin generated by extraneous low level EMF and photic fields can interact with the source of low level EMF and photic fields modulating it. Thus porphyrins can serve as a bridge between the human brain and the source of low level EMF and photic fields. This serves as a mode of communication between the human brain and EMF storage devices like internet. The porphyrins can also serve as the source of communication with the environment. Environmental EMF and chemicals produce heme oxygenase induction and heme depletion increasing porphyrin synthesis, quantal perception and two-way communication. Thus induction of porphyrin synthesis can serve as a mechanism of communication between human brain and the environment by extrasensory perception. The porphyrions are self replicating supramolecular organisms which forms the precursor template on which the viroids, prions and nanoarchaea originate. Stress induced template directed abiogenesis of porphyrions, prions, viroids and archaea is a continuous process and can contribute to changes in brain structure and behavior as well as disease process.

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Life in earth would have evolved by seeding of viroids and archaea from the outer space consequent to asteroidal hits. The universe would have a biological origin and it is plausible that is there extraterrestrial intelligence in the form of a quantal computing cloud formed of archaea, viroids and porphyrions controlling and creating the universe. This could be considered as a biological god. The quantal computing cloud in the intergalactic space made up of archaea, viroids and porphyrions can seed organisms into the earth off and all through asteroidal impacting infusing a fresh set of genes into the planet and regulating the planet organization and function. The evolution of life and species on earth would have occurred by the phenomenon of panspermia. The various pandemics that occurred in the various phases of the history of the earth would have an extraterrestrial source. The theory of panspermia has been widely propagated by the astronomer Fred Holye in recent times. Holye also postulated a microbiological origin of the universe formed of intergalactic magnetic fields generated by bacteria. The pandemics occurring in earth at recurrent periods of time would be generated by the extraterrestrial quantal computing biological cloud due to asteroidal impacts. The asteroidal impacts have been described before the Spanish flu pandemic of 1915. Wickramasinghe has claimed that the corona virus came from space by meteor and the prevailing winds are spreading the disease to the hardest hit countries. The virus has spread by the prevailing winds along a global band about 40-60 ^{o}N latitude. A

meteor was seen as a blazing fireball flying across sky north-east of China in October 2019. The cornoa virus outbreak occurred in the same region as China as the fireball was fallen. He belives that the meteor contained embedded within it the nCoV virus particles that survived the interior of the incandescent meteor. Infectious agents are present in space carried on comets and can fall towards the earth to the troposphere. They bring about human epidemics and pandemics. The seeding of the earth by the extraterrestrial quantal computing biological cloud can be a deliberate act to regulate the organization and functioning of the earth. It could be a form of contact with an extraterrestrial alien which could be hostile or friendly. The extraterrestrial quantal computing biological cloud can produce seeding of archaea and viroids generating changes in society. It can produce changes in the human species and neanderthalisation, generates asexual phenotypes and autistic phenotypes. The extraterrestrial quantal computing biological cloud can create a surrealistic, syntheistic quantal perceptive and spiritual brain. This can also be lead on to globalization and anarchy. Extraterrestrial quantal computing biological intelligence can thus modulate the structure of society on earth. The archaeal endosymbiosis induced by the extraterrestrial quantal computing biological cloud can generate a homo galacticus species capable of surviving in extraterrestrial environment and communicating by extrasensory quantal perception. This can lead to the evolution of a galactic civilization and intergalactic communication modulated by the extraterrestrial quantal computing biological cloud of porphyrions, archaea and viroids.

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The Fermi paradox says that there are inhabitory planetary systems in different galaxies and it is paradoxical that human beings are not come into contact with alien intelligence. The Drake equation helps us to calculate the number of intelligent civilizations in different galaxies of the universe. The intergalactic archaeal quantal computing clouds serves as the master of the universe and as the ubiquitous universal observer. The quantal computing archaeal clouds seed life in different planetary systems of galaxies. The universe can exist in the particulate and quantal state with swings between the two states determined by the master archaeal quantal computing cloud which functions as ubiquitous observer and intelligence controlling, creating and regulating the universe. Each civilization has a particulate and quantal counterpart. The particulate part of the civilization is not sensed by another civilization. The quantal computing cloud serving as the master intelligence is a universal observer and prevents particulate civilizations from coming to contact. There is a permanence of the quantal universe. The quantal civilizations inhabiting multiverses are in contact with each other through worm holes.

Every civilization is a dark forest. Every civilizations aim is to survive. Contact with another civilization results in annihilation. Civilizations hide their signals. Just like animals and hunters in the forest. Paranoid and suspicious about intentions. Finite resources in universe. Each civilization seeks to expand. Galactic civilizations are like the dark forest and hide from each other for the fear of mutual annihilation. Therefore contact with other galactic civilizations is an impossibility. The civilization in earth would have by its technological advances, galactic travels and radiation sources penetrated the dark forest and came into contact with the extraterrestrial quantal computing cloud serving as the master intelligence and universal observer creating the observed world.

Gravity is related to consciousness which is structured in the cerebral cortex and antigravity to unconsciousness which is structured in the cerebellum. Quantal computing involving topological superconductivity can make use of cubits of graviton and antigraviton which can lead on to the creation of a universal quantal computing cloud- the supercomputer God. Panpsychism considers the universe as conscious and consciousness as an intrinsic feature of all sub-atomic particles, living things and non-living things. This gives continuity between the quantal world of existence and macroscopic world. The quantal superpositions collapse or undergo decoherance due to the observation of universal protoconsciousness field. The universal protoconsciousness field can be considered as gravity and antigravity. The universal protoconsciousness field permeates the whole galaxy and is intrinsic to all matter. Matter is a creation of consciousness. Extraterrestrial intelligence can exist as a superorganism controlling and creating the universe. A network of extraterrestrial porphyrin molecules or porphyrions fits in well with this concept. Porphyrins have got a wave-particle existence and can arise from the quantal foam of gravitational waves and anti-gravitational waves which creates human consciousness and unconsciousness respectively. This can form a quantal computing God cloud of porphyrions with quantal computing involving topological superconductivity can make use of cubits of graviton and anti-graviton.

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Extraterrestrial intelligence can exist as a superorganism controlling and creating the universe. In this regard the concept of black cloud of gaseous extraterrestrial superorganism put forward by Fred Hoyle is significant. The black clouds of interstellar gas are made up of hydrogen. There are small pieces of solid matter at the centre and are linked to form a complex neurological system. Clouds have the capacity to increase the brain size and complexity and become intelligent. A network of extraterrestrial porphyrin molecules fits in well with this concept. Porphyrins have got a wave-particle existence and can arise from the

quantal foam of gravitational waves and anti-gravitational waves which creates human consciousness and unconsciousness respectively. A large organized self-replicating information system of porphyrins can function as an extraterrestrial intelligent organism. The intelligent black cloud when it finds a lifeless interstellar cloud creates simple brain system by transfer to the lifeless cloud. This gives a lifeless cloud life and intelligence. Black clouds never disappear, never age and never reproduce. Black clouds can communicate with other black clouds by radio wave brain waves. Black clouds need star light to metabolize chemical substances. The porphyrin arrays can utilize light to self-replicate and propagate. Being clouds of gas the superorganism can assume any shape. When the food supplies of the black cloud in the interstellar space falls the black cloud approaches a star and assumes a disc-like shape to absorb energy from the star. The cloud has to leave the star within a short span of time or it will condense to become the planet of the star. This can be compared to the molecular quantum computing clouds of Tamulis. These are massive immobile extraterrestrial intelligence which sprawls and stretches for hundreds and thousands of miles in the interstellar space. They can be compared with group of neurons which are interconnected. Each node in the network is a brain. This gaseous extraterrestrial intelligence can arise from an emission nebula. An emission nebula is one of the huge clouds of gas and dust that floats around in the interstellar space. In this could chemical molecules of life carbon monoxide, formaldehyde, methanol, hydrogen sulphide, sulphur oxide, sulphur dioxide and hydrogen cyanide are seen. Life arises in this interstellar chemical cloud of gas. Porphyrins arrives which can self-replicate can arise in this chemical interstellar clouds. This creates a superorganism which can form superintelligence. The interstellar gas is mostly made up of hydrogen. The higher dense regions of the interstellar gas can condense to form stars and planets. The coldest clouds form low mass stars and giant molecular clouds forms large mass stars. This form of gaseous extraterrestrial intelligence is seen in atmospheres of other planets in the cloudy organic molecular atmosphere and interstellar space. This fits in with the concepts of human evolution in earth where the protoplasmic body can get converted to the robotic body and then the energy body. The cool or hot interstellar gas can generate networks of extremophilic archaea which can survive on carbon dioxide and hydrogen. They are called the halophilic archaea or the methanogenic archaea. They can live in extremes of cold, heat, acid and pressure. The porphyrin network can form a template for the generation of viroids and prions which can symbioze together to form an archaeal and huge extraterrestrial interstellar gas archaeal network with intelligence can arise. This can condense to generate stars and planets as well as evolving life in planetary systems. The

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archaeal networks are capable of nuclear fusion and fission reaction and can power star systems like the sun. It is extremely plausible that extraterrestrial intelligence is an interstellar archaeal colony network arising abiogenically on porphyrin templates which can be generated sui generis from the quantal foam of gravitational waves and anti-gravitational waves. The interstellar dust forms stars and planets and the magnetotactic archaea generated intergalactic magnetic fields plays a role in the generation of star and planetary systems. The giant molecular porphyrin clouds and archaeal networks are extraterrestrial intelligence that plays a crucial role in star formation and formation of planetary systems. The extraterrestrial intelligence porphyrin network and archaeal network can communicate with any part of the universe by the phenomenon of quantal entanglement. Interstellar gas is formed of grains of calcified nanoarchaea. Tamulis has postulated molecular quantal computing clouds that absorb magnetic and light emissions from planet and stars, compute information and move in space by using light pressure. The clouds use photoactive molecules for molecular quantal computing. They can convert light emissions to magnetic flops. The magnetic flops interact and control the central generating elements of 10 quantum bits of the molecular quantum computing clouds. Such clouds can exist in a coherent state at low temperature of the interstellar gas. Porphyrin networks are photoactive molecules and can generate molecular quantal computing clouds which can absorb magnetic and light emissions from planet and stars, compute information and move in space by using light pressure. The porphyrin networks can abiogenically generate archaeal bacterial massive extraterrestrial network intelligence. This formless mass living in space obtains its energy from the light of the stars and communicates with itself and other forms of lights by radio waves. The interstellar gas is analogous to blood, the heard and kidneys are electromagnetic and there is a complex neurological system of the brain. This cloud of interstellar gas porphyrin networks and archaeal colonies can convert into stars and planetary system by condensation. The energetics for star systems comes from biological fusion and fission reaction occurring in archaeal networks. The archaeal networks of extraterrestrial intelligence can engineer changes in human mind and civilization.

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The extraterrestrial intelligence is an archaeal colony network. It arises on porphyrins which are generated sui generis on the quantal form. The porphyrin networks can self-replicate and can form a template for the formation of viroids and prions. The archaeal colony networks are extremophilic networks and can survive in the environment of extreme climates of Mars and Venus as well as in interstellar gas. The extremophilic archaeal extraterrestrial

network can secrete RNA viroids which form RNA viroidal quasi-species consortia. The RNA viroidal quasi-species consortia can be edited by archaeal digoxin giving identity and specialization to the network. The archaeal extraterrestrial intelligence impacts on earth by meteoritic showers which give new cosmic genes to the earth. This is the form of cosmic gene transfer. The earth is populated by homo sapiens and the transfer of archaeal and RNA viroidal genes generates the homo neanderthalis. They can be compared to the hybrids described in Biblical literature and other religious texts as the fallen angels, nephilm or the Sumerian Annunaki. These are generated by transfer of cosmic genes by archaeal networks mediated by meteoritic impacts. The Neanderthal hybrids that are generated are susceptible to diseases like degeneration, autoimmune disease, metabolic syndrome, cancer and new viral infections. The hybrids are matriarchal, gender equal, have alternate sexual practices, autistic, altruistic, spiritual and with extrasensory powers. These can be called as God astronauts of ancient literature. The first episode of transfer of archaeal and RNA viroidal genes occurred in the ice age and second transfer is occurring in the age of global warming. The Neoneanderthal species of global warming age is produced by cometary transfer of archaeal and RNA viroidal genes. The extraterrestrial intelligence of extensive self-replicating porphyrin networks and archaeal networks generated abiogenically in the interstellar space is comparable to an external god-like force. The porphyrin networks can exist both as wave and particle and can arise from the quantal foam of gravitational waves of consciousness and anti-gravitational waves of unconsciousness which can later generate extensive extraterrestrial intelligence of nanoarchaeal networks. The extraterrestrial intelligence of porphyrin networks generated sui generis from the quantal form can be called the lotus of Brahma. The gravitational waves and anti-gravitational waves of consciousness and unconsciousness create matter by the phenomenon of soni-luminescence. This forms what is called as the collective unconscious of Jung or the monads of Leibnitz or the panpsychism where there is no distinction between the consciousness of living and non-living put forward by the Greeks, Hindus and recently expounded by Chalmers.

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The extraterrestrial intelligence is an archaeal colony network created on a porphyrin network that arises spontaneously by wave-particle transformation from the quantal foam of gravitational waves of consciousness and anti-gravitational waves of unconsciousness. The whole process is abiogenetic and is a creation without a creator. The porphyrin arrays can self-replicate, store information and harvest magnetic and light energy from the stars. It can convert light energy to magnetic flops. The magnetic flops interact and control the central

generating element of the 10 quantum bit of the quantum computer. These are analogous to the black cloud of Fred Hoyle and the molecular quantal computing clouds of Tamulis. Long lasting coherent quantal states are possible in the low temperature of the interplanetary dust. The porphyrin network and archaeal network extraterrestrial intelligence can communicate with itself and others by radio waves. The interstellar gas with this porphyrin network and archaeal network can condense at dense sites into stars and planets and give rise to life forms in those systems. The porphyrin network and archaeal network can survive in the extremes of temperature of planetary systems like Mars and Venus and can influence the behavior and future of human civilization with which they can come into contact via transfer by meteoric impacts. Such meteoric impacts occurred in the ice age and at other frequent epochs in the planet's history. The impact in the Ice age gave rise to Neanderthal hybrids with archaeal and RNA viroidal symbiosis by parasitizing with homo sapiens in the Eurasian steppes. The Neanderthal hybrids had defective cortical function and have a dominant cerebellar function with a different behavioural code. They were matriarchal in the sense the newer genes were of cometary origin. Males and paternal roles were insignificant. This gave rise to the female dominant society. The Neanderthal hybrids because of intermingling with archaeal and RNA viroidal genes were susceptible to autoimmune infection, degenerations, tumours, metabolic syndrome, autism, schizophrenia and deviant sexual behaviour. This resulted in rapid elimination of the Neanderthal hybrids from the society of homo sapiens. The Neanderthal hybrids owing to the archaeal and RNA viroidal genes were creative, autistic, savantic, spiritual, inventive, intuitive, scientific, artistic and were the dominant drivers of society. They became the leaders of society and god-like characters directing the flow of civilization. This was possibly mediated by the intervention of the interstellar porphyrin network and archaeal colony extraterrestrial intelligence in the intergalactic space which controls the universe and has a god-like function. Such porphyrin networks and archaeal colony networks of gigantic proportions are feasible in the atmosphere of other planets including earth. There is increased growth of endosymbiotic archaea in homo sapien population owing to global warming. The human body functions as a zombie or caste for the growth of the archaeal symbionts who take over the function of the human brain and its actions. This has resulted in the recent changes in society with globalization, terrorism, the rise of spirituality, anarchism, domination by certain states, lack of democracy, the rise of creativity in technology, art and culture. A new generation of Neoneanderthal hybrids are being generated which are an army of zombies for an extended archaeal terrestrial intelligent network. The archaeal terrestrial intelligent network as an extension of the extraterrestrial interstellar space porphyrin and

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archaeal network is taking over the world and its culture. This will have far reaching consequences to human existence and for the destruction of the human zombies as we see ourselves today. The archaeal colony terrestrial network will survive and the global warming will destroy the human zombies. The human zombie created or engineered behavioural and life style change leading to global warming leads to extension of gigantic growth of the terrestrial intelligent archaeal network. The growth of the terrestrial intelligent archaeal network in the oceans will lead to release of methane gas, rise of ocean levels, tsunamis, earthquakes, destruction of the earth's ecology by global warming and a civilization of zombies as such. The homo sapiens can be considered as zombies controlled by a matrix of terrestrial and extraterrestrial porphyrin and archaeal colony network. This is the world of maya and the human zombies can cut through the illusions and connect with larger world of terrestrial and extraterrestrial intelligence called gods. We can become psychonauts and connect with the world of extraterrestrial and terrestrial intelligence. Extraterrestrial and terrestrial intelligence of porphyrin networks and archaeal colony network created on porphyrin templates are itself illusory. The porphyrin and template mediated nanoarchaeal colony network have a wave-particle existence and can merge into the quantal foam of nothingness with its gravitational waves generating consciousness and anti-gravitational waves generating unconsciousness. The terrestrial and extraterrestrial porphyrin and archaeal colony network with its RNA viroids quasi-species consortia are variable from time to time. The archaea secretes digoxin which edits the RNA and change the character of the network in response to environment. The network of terrestrial and extraterrestrial intelligence owing to the extreme variability of the RNA quasi-species consortia mediated editing forms intelligence and consciousness which changes from time to time in consonance with the hundred thousand or more superimposed possibilities of the quantal foam. They are the momentary consciousness and not a single wholesome structure. The consciousness of the universe of all objects living and non-living is interconnected forming what is called as a collective unconscious or the world of Maya or panpsychism. There is no death and everything is universal and eternal. Change in consciousness occurs every second and everything is momentary and at the same time long lasting. All the momentary stages of universal consciousness or Samsaras are fixed and are not susceptible to change. The changes in the quantal foam of the universal consciousness get reflected in the particulate terrestrial and extraterrestrial intelligence of porphyrin and archaeal colony network which is subjected to continuous uninterrupted editing by the changes in the codon feature of the RNA viroids. Thus the quantal possibilities of the universal consciousness parallel the ever changing

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structural features of the terrestrial and extraterrestrial intelligence of porphyrions, archaea and RNA viroidal network.

The constant transfer of cometary genes from the interstellar extraterrestrial intelligence of archaea and RNA viroids created on a porphyrin templates generated from the quantal foam of consciousness which can be described as god due to impact of meteors changes the culture, civilization, behavior, sexuality, politics, economics and environment of the homo sapiens and hybrid population in planet earth. This cometary gene interacts with the terrestrial bacteria and viruses creating new bacteria and viruses and new epidemics which define populations and give them identity. The new bacteria and viruses of plant and animal origin give rise to mass extinctions and change the ecology of the planet. And a massive growth of terrestrial archaeal colony network in oceans can lead to earthquake, tsunamis, global warming, drying up of earth, flooding and catastrophic extinction of the human zombie civilization as we know today. The extraterrestrial intelligence and terrestrial intelligence of porphyrin and archaeal colony network will survive in Mars, Earth, Venus, interstellar space and Sun. They are victorious, eternal and god-like. They are like astronauts from the outer space but only bacterial network astronauts. They can be considered as fallen angels send by the extraterrestrial intelligence to modulate the civilization of planets and stars of the universe and creation of hybrid zombies. The hybrid zombie civilizations are destroyed once the use is over. This happens to the Sumerian civilization, the Harappan civilization, the Egyptian civilization and Aztec civilization. This is happening to homo sapien civilization at present created by the crisis of global warming due to terrestrial archaeal colony networks. The zombies will end but the masters and the gods of extraterrestrial porphyrin and archaeal colony network survive. The networks are protoplasmic and robotic bodies and can go back to their energy bodies of nothingness and merge into the quantal foam. This is the world of Maya where nothing exists and we can cut through the illusions and reach the world of Maya and connect with it. This may provide a hope for saving the human civilization of zombies with their archaeal colony networks increasing at astronomical spaces and speeding on to an end of catastrophe.

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The extraterrestrial archaeal network with its secreted RNA viroids gives rise to eukaryotes, prokaryotes, multicellular organisms, primates and humans. The archaeal network secreted RNA viroids are edited by archaeal digoxin producing identity for different RNA viroidal quasi-species consortia. The RNA viroids can get converted into complementary DNA sequences and get inserted into archaeal genome. This produces

varying diversity of extraterrestrial and terrestrial porphyrin and archaeal intelligent networks. The human and other multicellular organisms are structured by the endosymbiotic extraterrestrial and terrestrial archaeal network to produce species evolution and identity. The eukaryotes and prokaryotes evolve from the archaea by genomic changes induced by integrated complementary sequences of digoxin edited archaeal RNA viroids. Thus the extraterrestrial and terrestrial archaeal intelligent species network is capable of evolving to prokaryotes, eukaryotes, multicellular organisms, primates, plants, animals and humanoids. These are all zombies or structures for the extraterrestrial and terrestrial archaeal and porphyrin intelligent networks to survive and utilize. The terrestrial and extraterrestrial porphyrin and archaeal networks can have a wave-particle duality and can merge into the quantal foam and exist as intelligent quantal beings. They can be called as terrestrial and extraterrestrial intelligent quantal beings with multiple superimposed possibilities cohabiting multiverses at the same point of time. This raises the question of the nature of life itself. Life is a virtual reflection of the porphyrin networks intelligent species that arises out of the quantal foam of nothingness and can dissolve into it. This constitutes what is called as the world of Maya. There is only one life form the terrestrial and extraterrestrial intelligent porphyrin and archaeal networks which can have an energy existence or a particulate existence. All other life forms and inanimate forms arise out of it and are reflections of it and interconnected throughout the universe by the phenomena of quantal spin and quantal entanglement and non-local interaction. Everything in the universe exists everywhere at every point. Time is an illusion.

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The terrestrial and extraterrestrial networks of porphyrin arrays and archaeal networks can influence earth by being transported to the terrestrial habitat by meteoritic showers. This induces fresh infusions of cometary genes into earth and other planetary systems. These are genes from the extraterrestrial porphyrin and archaeal networks which arise out of the quantal foam and induce the formation of star systems and planetary systems. They can be compared to a collection of lotuses in the ocean of galaxy. The lotuses being porphyrin arrays which have a wave and particle existence. This can be called as lotus of Brahma or the God of creation in a metaphorical sense. The infusion of cometary genes from this extraterrestrial porphyrin and archaeal intelligent networks with god-like qualities into the earth affects the homo sapien and primate population. This results in creation of newer species with god-like characteristics who assume leadership in societies like Gauthama Buddha and Jesus Christ. They are induced by cometary genes from the extraterrestrial porphyrin and archaeal

intelligent network. Such hybrid populations in the earth can be called as Neanderthals or Neoneanderthals due to changed characteristics consequent to extraterrestrial archaeal symbiosis. They form leaders in society and guides civilization. Civilization progresses due to infusion of genes from the extraterrestrial intelligent porphyrin and archaeal networks. The appearance of meteors and comets signify the infusion of cometary genes from the ultimate extraterrestrial porphyrin and archaeal network. These extraterrestrial porphyrin archaeal networks in the interstellar gas can also condense to form stars and planets. These networks as said before have a wave energetic form and a particulate form and are the mode of creation and destruction of the universe. Excessive growth of extraterrestrial archaeal networks in earth due to methanogenesis creates global warming and extinction of civilization. The extraterrestrial archaeal networks fission and fusion reaction fuel star systems as well as mediate their extinction. The extraterrestrial magnetite archaeal network is responsible for the intergalactic magnetic field in the galaxy and contributes to the formation of star systems. The extraterrestrial porphyrin and archaeal networks with their energetic and particulate bodies participate in the dance of creation and destruction of the universe and can be compared to the Hindu God Shiva.

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The archaeal and porphyrin extraterrestrial network is intelligent and occupy the interstellar space and communicates with all galaxies, planets and star system by the phenomena of quantal non-local interaction and contributes to what is called as the collective unconscious or God. The extraterrestrial porphyrin and archaeal network form the centre of the interstellar gas and can condense to form stars and planets. Stars are fueled by fission and fusion reaction in the archaeal networks of interstellar clouds of hydrogen. Thus the stars and planetary systems are alive and humanoid having a natural history of their own with life and death. The Hindu Gods and Rishis are fixed and attached to planetary and star systems. This would be a reflection of the impact of the extraterrestrial archaeal intelligence and the transfer of cometary genes to other planetary systems including earth. The extraterrestrial porphyrin and archaeal intelligent networks can build up the interstellar space, in other planets like Mars and Venus and other star systems. Intelligent civilization already exists in star systems and galaxies all over the universe. They are made of the extraterrestrial porphyrin and archaeal intelligent networks. The same extraterrestrial and induced terrestrial porphyrin and archaeal network gave rise to the zombie civilization of plants, bacteria, viruses, animals, primates and humans in earth with the terrestrial archaeal and porphyrin intelligent network as the real eternal structure. The zombie forms change from time to time. The terrestrial

archaeal and porphyrin network having an energy/wave particulate existence is eternal. Similar extraterrestrial archaeal and porphyrin intelligent network induced civilizations or the networks per se acting as civilized entities controlling the universe exists all over the galaxies and universe. This can be called as the God being. The transfer of cometary genes from the extraterrestrial porphyrin and archaeal network due to meteoric and cometary showers can be considered as visitations of the extraterrestrial archaeal intelligence to planetary systems and star systems to modulate such systems. They can be called as god astronauts in metaphorical sense. The human civilizations can be considered as zombies for the extraterrestrial archaeal intelligent network. The human zombie's creativity, leadership qualities and intelligence are proportionate to the infusion of cometary genes. The human zombies with the highest density of cometary genes from the extraterrestrial archaeal intelligent network are neanderthalic and dominate societies as kings and leaders. They are autistic and intelligent and form scientist, writers, poets, painters, dancers, artists and all creative icons of civilizations. They can be called as the illuminati of earth or the agents of the extraterrestrial archaeal intelligent network controlling the earth. The terrestrial history and civilization is also modulated by infusion of cometary genes by meteoric impacts from extraterrestrial archaeal intelligent network. This alters the genomic patterns of the homo sapien population by the archaea and the secreted RNA viroids. This results in reduction in cerebral cortical function, logical thinking, civilized behavior and humanity as we know it. The society becomes cerebellar dominant and impulsive. The brain becomes a prisoner of surrealistic and transcendentalistic urges. This creates abstract art, anarchy, terrorism, sexual anarchy, alternate sexuality, rock music, globalization of culture and spirituality. This also leads to violence, terrorism, revolutions and wars which creates a sort of transcendence similar to spirituality. The world is dominated by impulsive people without logical thinking and with dominant extrasensory perception. The world becomes anarchy and globalized with uniformity in human behavior and thought. The changes in society are brought about by increase in archaeal growth and increased transfer of extraterrestrial archaeal intelligent networks starting from the ice age. The Neanderthal hybrids were creative and created changes in society leading to an industrial revolution and a technological revolution contributing to global warming and extremes of temperature which leads to further growth of terrestrial and extraterrestrial archaeal intelligent networks. The aim of creating human zombies or hybrids that are creative could have been to create an environment which leads to further expansion of the terrestrial and extraterrestrial intelligent porphyrin and archaeal networks. The expansion of the terrestrial archaeal networks produces methanogenesis, global warming and further growth of terrestrial

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archaea. The growth of terrestrial archaea in the ocean beds can lead to earthquakes, continental drifts, tsunamis, rise in water levels, flooding and global catastrophe ending the universe and human zombies as we know of today. The terrestrial and extraterrestrial network of porphyrin and archaeal intelligence will continue till eternity. They can have a wave-particle existence reverting to their energy body or wave body when required and coming back to particulate existence from the quantal foam when required creating stars, planets and life again. This is the dance of life and death- the dance of Shiva.

The Biblical literature can be interpreted in terms of extraterrestrial archaeal networks and Neanderthal hybrids. The extraterrestrial archaeal networks contacts the terrestrial system via meteoric and cometary impacts. The homo sapien females with archaeal symbiosis give rise to Neanderthal hybrids. The homo sapien population have less of archaeal density and different characteristics. The Neanderthal hybrids were creative and autistic and became the rulers of society and kingship developed owing to the groups increased intellectual and physical abilities. The homo sapien females with archaeal symbiosis gave rise to Neanderthal hybrids and they were considered as equivalent to mother goddess in certain societies or as manifestation of Shakti. This gave rise to a matrilineal society and female dominance. The extraterrestrial archaeal network which forms stars and planetary system can be considered as a representative of Shiva and the female homo sapiens with archaeal symbiosis giving rise to Neanderthal hybrids can be considered as a consort of Shakti. The common homo sapiens viewed the Neanderthal hybrids with suspicion as they were different from the general population and dominant, ruling over them with their physical and intellectual ability. The common homo sapiens organized themselves as the church against Neanderthal hybrids which formed the state or kingship. The common homo sapiens considered the interbreeding of homo sapien females with extraterrestrial archaeal networks as original sin and the extraterrestrial archaeal networks contacting the earth via cometary impacts as fallen angels. The common homo sapiens considered sex as taboo and society was organized to prevent inter-breeding with Neanderthal hybrids. Hybrids were intelligent, creative, domineering with sexual freedom which was considered as sinful by the common homo sapien population and the church. Therefore the position of women in the common homo sapien society with cerebral cortical dominance was inferior, sexual activity was sinful and society was patriarchal with strict moral codes. The Neanderthal hybrids on the other hand, were cerebellar dominant impulsive creatures with sexual freedom, loose moral codes and a communal life with matriarchal structure of society. The matrilineal societies with archaeal

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symbiosis are the Celts, Basques, Berbers, Jews, Sumerians, Dravidians and ancient Egyptians and they were all communal groupings of Neanderthal hybrids and dominated civilization for decades. This is noticed in the Egyptian civilization of Pharoahs, the Sumerian civilization, the ancient Jewish civilization, Assyrian civilization, the Iranian asuric civilization, Aztec civilization and the Harappan civilization. The Indian caste system is based on the phenomenon of Neanderthal hybrids. The Neanderthal hybrids formed due to contact with the extraterrestrial archaeal networks consequent to meteoric impacts formed the upper caste of Brahmins and Kshatriyas. The common homo sapien population formed the Shudras. The Neanderthal hybrids of the upper caste ruled over the society and kept a common homo sapien population of lower caste as slaves. Breeding laws were made and a caste groups made water tight to keep the purity of the Neanderthal hybrids. The common homo sapien population all over the world retained its patriarchal moorings and male dominance and became predominantly Christian and Muslim. These societies were cerebral cortical dominant, civil societies were equality and respect for people was the norm. The Neanderthal hybrids with the creativity and extrasensory powers became Hindus, Buddhists and Jews. These societies were divided on the basis of caste and for the necessity of keeping the Neanderthal hybrids pure and compact. The Sumerian texts, the Egyptian papyrus, the Rig veda, the ancient Jewish testaments, the Assyrian literature are Neanderthal hybrid in origin and contains version of the extraterrestrial archaeal networks of the interstellar space giving rise to stars and planetary system. The gods of Egypt, Hindus, Assyrians and Jews are connection with the stars. This can be noted in the ritual of pagan religions like those in Stonehenge, the rituals of Hinduism and those of ancient Egypt as well as Aztecs which had relation to the star systems indicating contact with extraterrestrial intelligent archaeal networks. The Neanderthal hybrids have cerebellar dominance and cerebral cortical dysfunction and could attain transcendence to the collective unconscious and connect with the extraterrestrial archaeal particulate or energy network with ease. Most of the religious spiritual leaders could have been Neanderthal hybrids. The kings and warriors were also Neanderthal hybrids. The act of war or the act of killing gives a sense of transcendence and merger with the collective unconscious as seen in the Bhagavad Gita where the act of war is considered as a dharma and leads to transcendence. The cortical function of logical thinking is obliterated. The Nazis including Hitler and Himmler believed in the philosophy of the Bhagavad Gita which justified the world wars as an act of dharma. There is also the concept of avatars of Vishnu descending from the heaven to save mankind. This includes Krishna and Buddha. They can be considered as Neanderthal hybrids bred in contact with the

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extraterrestrial intelligent archaeal colony particulate or energy network mediated by archaeal colony astronauts showered on to the earth by meteoric impacts. All the political revolutions on earth had a neanderthalic hybrid leadership- Nazism, Fascism, Communism, the French revolution and the royal kingship. The French revolution and communist revolution despite its egalitarian ethos were basically led by Jews. The modern revolution of the dissolution of nation states and globalization of capital and economy also has a Jewish leadership of Neanderthal hybrids. The technological revolution of the internet which powers the globalised world is also dominated by the impulsive cerebellar dominant Neanderthal hybrids. Low level of EMF fields of the internet can increase archaeal growth and archaeal magnetite mediated perception of low level EMF producing cortical atrophy and cerebellar dominance which can be transmitted genetically. The internet revolution is powered by Neanderthal hybrids who are basically autistic and have extrasensory perception due to higher brain density of archaeal magnetite. The Neanderthal hybrids dominate the world with their intellectual and physical superiority and can be considered as a universal ruling caucus or illuminati.

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The modern day neanderthalic religion mediated by the intergalactic archaeal molecular quantum computing cloud includes Hinduism, Jewish Kabala, the Islamic Sufism, the Christian Gnostism and the Zen Buddhism. These are all cerebellar cortical religions. They have an extraterrestrial content, are impulsive, loose, ritualistic, sexual, sensual and primitive. The correlates of these can be surrealism, matriarchal, global, violence, gender equal, alternate sexuality, non-democratic and with extrasensory quantal perception. They are environmental friendly and worship environment as god. They are prone to civilizational diseases like tumours, metabolic syndrome, degenerations, psychiatric illness and autoimmunity and in that sense were considered by the homo sapien secular religions as satanic. They are equivalent to the vampires, the demons, the elf, the goblins and Asuras. The homo sapien secular religions include the Wahabi Islam, modern communism and the protestant and Roman Catholic Christianity. The homo sapien religions are cerebral cortical religions of civil societies. These homo sapien religions give a civilized code of social conduct. The correlates of it are non-violence, ahimsa, morality, patriarchal, female-suppression, gender inequality, strict heterosexual moral codes and anti-environmental.

The corona virus produces defects in oxygenation of hemoglobin. The lung lesions produced by the corona virus is not an adult respiratory distress syndrome but a syndrome akin to high altitude sickness due to oxygen deprivation. The corona virus is a lipid envelope

RNA virus and gets transcribed into DNA segments using the HERV reverse transcriptase. The corona virus RNA that gets transcribed to DNA can get integrated into the non-coding sequence of the human DNA and can function as jumping genes. The corona viral proteins can be synthesized by the human cell. The corona virus can displace iron from the beta chain of hemoglobin rendering hemoglobin and oxygen transport dysfunctional. The human body is subjected to a hypoxic ischemic injury consequent to defect in oxygen transport as occurs in high altitude mountain sickness, cyanide poisoning and carbon monoxide poisoning. The corona virus can release iron from hemoglobin and increase the ferritin levels and free iron levels to catastrophic levels. This produces cytokine activation due to increase in free radicals. The corona virus can deplete heme from hemoglobin and other heme containing enzymes. This includes cytochrome C oxidase which produces a mitochondrial dysfunction and hypoxic injury. It can bind with heme enzymes like nitric oxide synthase which produces nitric oxide, cystathionine beta synthase which produces defective synthesis of hydrogen sulphide and heme oxygenase which produces defective carbon monoxide production. Thus the endogenous vasodilator neurotransmitters are depleted producing generalized tissue vasoconstriction. The heme containing enzymes involved in glutathione metabolism- glutathione synthetase and glutathione reductase are also made dysfunctioning inhibiting free radical scavenging. The TCA cycle enzyme aconitase is also a heme enzyme and the corona virus inactivates it. The cytochrome P450 enzymes involved in steroid synthesis are also heme enzymes and they are inactivated producing acute cortisol, aldosterone and sex steroid depletion. The corona virus also produces a protein that inactivates furin involved in activating various protein enzymes. The corona virus infection produces a metabolic disorder with defects in oxygenation and the syndrome of acquired acute porphyria with secondary iron overload state.

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The corona virus binds to porphyrins and takes out porphyrins from the human system producing an acquired porphyria. When the porphyrins are taken away from heme, ALA synthase is activated producing an acquired porphyria. Such an acquired porphyria has been described in porphyria variegate and viral infections like SARS, HIV, HCV. The abnormal increase in porphyrin synthesis produces an acquired porphyria in corona virus infection with neuropsychiatric manifestations, autonomic dysfunction, visceral crisis, decreased inhibitory GABA transmission and dysfunction of all heme containing enzyme systems- mitochondrial cytochrome C oxidase, cytochrome P450 enzyme systems involved in steroid and fatty acid

metabolism, glutathione metabolism enzymes, TCA cycle aconitase and enzymes involving gasotransmitter synthesis.

The corona virus induced increase in porphyrin synthesis and porphyria has got other major catastrophic consequences. The porphyrins can self-organise and self-replicate to form porphyrions which are primitive organisms. The porphyrions are the initial primitive abiogenetic organisms. The porphyrions can self-replicate and can have a primitive electron transport chain for ATP synthesis. The porphyrion can form a template for further corona virus abiogenetic replication. Thus the corona virus can induce an acquired porphyria, form porphyrions which can self-replicate and self-organize and can have porphyrion template induced abiogenetic corona virus replication. Thus the potential for corona virus replication by abiogenetic porphyrin induced templates is non-stoppable and continues probably eternal. The corona virus does not need the human host to replicate and survive. The corona virus RNA can get transcribed to DNA using HERV reverse transcriptase and colonize to human genome as the ultimate parasite taking over the function of the human body. The corona virus will thus never leave the human system. The Aryo-Dravidian Neanderthalic population in South India and parts of Eurasia has archaeal induced acquired porphyria which can lead to a human origin of emerging viruses like COVID 19 as well as resistance to emerging viruses like COVID 19 infection. The porphyrin COVID 19 complex can produce protection of the human tissues from COVID 19 and prevent the emergence of infection and death. The emerging viruses and COVID 19 can be detected in the Aryo-Dravidian Neanderthalic and similar.

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Climate change leads to increased porphyrin synthesis and porphyrin template mediated replication of viruses, prions and archaea. There is increased porphyrin synthesis leading on to porphyrinuria and porphyria. The stimulus for porphyrin synthesis comes from heme deficiency. Heme suppresses ALA synthase. Stress induces heme oxygenase which converts heme to carbon monoxide and bilirubin. Thus heme is depleted from the system. Heme oxygenase is induced by environmental stress. Climatic changes of global warming and ice age can induce heme oxygenase. Heme oxygenase is also induced by EMF pollution of the environment. Thus there is increased porphyrin synthesis from succinyl CoA and glycine. The porphyrins can self organize and self replicate to form primitive organisms called porphyrions. The porphyrions have a primitive electron transport chain and energetics. The porphyrions are capable of information transfer and storage by quantal perception. The porphyrions form a template for the formation of RNA viruses and viroids, DNA viruses and viroids, isoprenoid organisms and prions which all can self organize and associate to form

primitive archaea. Thus the climate change induced global increase in porphyrin synthesis in humans leads to increased abiogenetic formation of archaea which produces more of methane and methanogenesis leading to more of global warming. Global warming leads to more heme oxygenase induction and porphyrinogenesis. The porphyrins can form a template for abiogenetic replication of RNA viruses like corona viruses. The porphyrins can intercalate between cellular and organelle membranes and the porphyrin corona virus complex can enter all cell types and organelle with these. The porphyrins will serve for abiogenetic template mediated self replication of the corona virus. The corona virus RNA can get transcribed to DNA sequences by using human HERV reverse transcriptase. The corona virus DNA sequences can get integrated into the human genome non-coding area producing dynamic changes in the human genome. The corona virus can thus persists and replicate biologically and abiogenetically in the human system forever eternally.

Defect in heme synthesis and heme depletion leads to deficiency of heme enzymes. Deficiency cytochrome C oxidase and aconitase leads to mitochondrial oxidative phosphorylation defects and TCA cycle defects. This leads to pyruvate dehydrogenase deficiency and defect in synthesis of acetyl CoA. There is increase in glycolysis consequent to porphyrin photooxidation induced free radical generation and HIF alpha induction. This produces the Warburg phenotype. The increased level of pyruvate that is generated is converted to glutamate and ammonia. Thus there is hyperammonemia as a consequence of the metabolic defect. Since glycine is utilized for porphyrin synthesis serine is not synthesized leading on to deficiency of the substrate for synthesis of cystathionine. This leads to accumulation of homocysteine and homocystinuria. Deficiency of acetyl CoA leads to defects in the isoprenoid pathway and defective synthesis of cholesterol and ubiquinone. There is also deficiency of the heme containing cholesterol synthesizing enzyme lanosterol synthase. This leads to a cholesterol depleted state.

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The increase in porphyrins leads to cortical dysfunction and prefrontal cortex atrophy. The porphyrins can destroy the human endogenous retroviruses and the jumping genes leading to lack of dynamicity of the genome. This leads on to maldevelopment of the prefrontal cortex. This leads on to cerebellar dominance and a cerebellar cognitive affective disorder. This produces porphyrin related quantal perception. Porphyrins are dipolar molecules and in the setting of porphyrin mediated membrane sodium-potassium ATPase inhibition induced pumped phonon system can produce a quantal perceptive state. Porphyrins are macromolecules which can have both a wave and particle existence and can bridge the

particulate world and the quantal world. Membrane sodium-potassium ATPase inhibition induced dipolar porphyrin mediated pumped phonon system can lead on to a cellular plasma state and EMF signal transduction. Macromolecules like RNA, DNA, protein and the cell itself can have an EMF signature. This porphyrin generated macromolecular cellular EMF signature is important in regulation of cell function. The porphyrins can have quantal perception of low level EMF fields leading to prefrontal cortex atrophy. This leads on to cortical dysfunction and lack of functioning of the conscious brain. The cerebellum dominates and the unconscious takes over. This leads on to neanderthalisation of the brain and schizophrenia and autism. The heme deficiency leads to lack of synthesis of the heme enzyme cytochrome P420 dependent sex hormones and a widespread asexual state. The mitochondrial dysfunction leads on to insulin resistance and metabolic syndrome X. The Warburg phenotype and increased glycolysis leads to oncogenesis. The mitochondrial dysfunction can produce neurodegeneration. The increase in lymphocyte glycolysis can produce immune activation and autoimmune disease. Thus the stress induced porphyria due to climatic change and environmental pollution can lead to civilizational disease.

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The porphyrins can self organize to form macromolecular structures which can self replicate to form a porphyrin organism. The photon induced transfer of electrons along the macromolecule can lead to light induced ATP synthesis. The porphyrins can form a template on which RNA and DNA can form generating viroids. The porphyrins can also form a template on which prions can form. They all can join together – RNA viroids, DNA viroids, prions – to form primitive archaea. Thus the archaea are capable of self replication on porphyrin templates. The self replicating archaea can sense gravity which gives rise to consciousness. They can also sense the antigravity fields which gives rise to the unconscious brain. Thus there can be both self replicating archaea and anti-archaea regulating the conscious and unconscious brain. Thus the climate change stress mediated increased porphyrin synthesis leads to prefrontal cortex atrophy, cerebellar dominance, cerebellar cognitive affective disorder, quantal perception and neanderthalisation of the population. The porphyrions are self replicating supramolecular organisms which forms the precursor template on which the viroids, prions and nanoarchaea originate. Stress induced template directed abiogenesis of porphyrions, prions, viroids and archaea is a continuous process and can contribute to changes in brain structure and behavior as well as disease process. The COVID 19 virus binds to ACE 2 receptor. ACE 2 receptor is widely distributed in the brain. The highest density of the ACE 2 receptor is seen in the pons, medulla oblongata, eyes, visual

pathways, posterior occipital cortex, olfactory nerves and nose and the limbic cortex. Thus the virus also affects the limbic lobe and amygdella. The COVID 19 affects the posterior primitive parts of the brain- the brain stem, amygdale, and occipital cortex. The COVID 19 virus has got sequences similar to gag gene of the HIV virus. The gag gene of HIV virus is similar to the arc gene of the brain which moulds and sculpts the brain connections that make humans think as humans. This also involves classic operant coniditioning, human cognitive and concept of self. The absence of arc gene leads to autism, jeoparadizes brain development and prevent new learning ability. The gag-like genes of the COVID 19 are involved in the evolution that mediates intercellular communication in the nervous system. The COVID 19 gag like genes can function as jumping genes and integrate into the genome of humans and other organization. They are required for making the brain smart and plastic. In action the gag-like genes of COVID 19 transfer information from one neuron to another neuron via synapses which tell them where to connect. This information is called mRNA of the gag/arc gene and instructs the neuron as what to do. Upon receiving the arc/gag mRNA the neuron starts building capsids which form the outer shell of the virus. The capsid enables the arc/gag gene to safely move around extracellular space and enter into another neuron passing the arc/gag mRNA into it. The receiving neuron does the same until it is repeated again and again and information transferred into a sculpted synaptic network. Thus there is a possibility of COVID 19 and its gag/arc like mRNA gene generating capsid like viral structures which modulate and deconstructs the synaptic networks. Because of its propensity to the posterior part of the brain the brain stem, the cerebellum, the amygdale, the visual cortex and limbic lobe the structure function of the brain would change to a neanderthalic world. The cerebral cortex involved in reasoning, logic, liberty, civil society, organized community and the modern world as we perceive it will diminish and go out of existence. The extraterrestrial COVID 19 pandemic will lead to the generation of homo neanderthalis once more with its small community clusters, androgyny, creativity, paganism, extrasensory perception and different behavioural skills. The homo sapien civilization has raped the earth out of existence. Climate change, despotic governance, mass globalization of economy has led to the destruction of earth and homo sapiens. Homo sapiens can change only through a change in brain function. This is mandatory to human existence and the COVID 19 pandemic will produce epochal brain change into neanderthalic type as the previous extraterrestrial retroviral and archaeal pandemics. The climate change has also produced increased endosymbiotic archaeal growth which adds to the neanderthalisation of the homo sapiens. Homo sapiens may become a new species- homo neoneanderthalis or homo galacticus.

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Microbes and extremophiles may have migrated from star systems and other planets and distributed life around the universe. This constitutes the panspermia mechanism of life on universe. The spacecraft, the meteorites, asteroids can move between planets in the star system as well as structures like oumuamua can move between star systems and can have intergalactic travel. Lithopanspermia is a bacteria shielded by an asteroid of comet that can travel around the solar system. Asteroids, comets and oumuamua can contribute to interstellar panspermia and galactic panspermia. Panspermia is the leading cause for evolution of life on earth and changes in human and animal species. The intergalactic biological giant quantal computing cloud controls the universe as the master of universe. The alien visitations are viral or bacterial pandemics generated by cometary gene transfer from the intergalactic biological quantal computing cloud which also plays a crucial role in the creation of star system and universe. We are in the midst of regular communication with other planets, stars, intergalactic structures and other galaxies by biological viral, bacterial and archaeal visitors transferred by asteroidal or meteoritic impacts. That is how intercometary and intergalactic communication and possible civilization is organized, controlled and change brought about. Bacterial and viral pandemics due to transfer of cometary genes from the giant intergalactic biological quantal computing cloud are mechanisms for these communications to bring about changes required in different parts of the universe as desired by the master of the universe.

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The COVID 19 pandemic generated by cometary transfer of genes from the intergalactic giant quantal computing biological cloud would open a new symbiotic epoch changing human civilization as never before. The human species become neanderthalic, autistic, androgynous, spiritual, surrealistic, evil, creative, intuitive and syntheistic superhumans. The COVID 19 induced porphyrions are capable of quantal perception and intercommunication with the internet forming man-machine hybrids- the Kalki. The widespread use of internet will produce low level of EMF perception, heme oxygenase induction, heme depletion and porphyrinogenesis. Porphyrins will form templates for abiogenetic archaeal and COVID 19 replication. This will serve to increase the homo neanderthalic species while the COVID 19 will produce homo sapien extinction. The porphyrin synthesis is upregulated in homo neanderthalis and it combines with COVID 19 making homo neanderthalis immune to the virus while the homo sapiens gets exterminated. The homo neanderthalic endosymbiotic archaea use cholesterol as an energy substrate leading to depletion of sex hormones and infertility reducing the reproductive rate. The endosymbiotic archaea in homo neanderthalis makes them susceptible to the civilizational diseases like metabolic

syndrome, autoimmune disease, neurodegeneration, cancer, autism, depression and schizophrenia. The homo neanderthalic population becomes self limited owing to these pathogenic and reproductive constraints. The homo neanderthalic are basically paganistic and believe in eco-spirituality. The archaea, virus, bacteria, multicellular organism, plants, animals and humans are all god. There is only the protoconsciousness field to observe the universe and particles come into existence and self organized complex structures only when it interacts with the protoconsciousness field creating the world of Maya. The homo neanderthalic species is autistic and form small community clusters. The androgynous nature of the homo neanderthalis leads to breakage of family structures and creation of small community living clusters. The nation-state and nationalities do not exist and self-governing anarchy will be the form of government. The culture of widespread globalization of politics and economy will come to an end. The rule of despots and so-called controlled democracies will be replaced by self governing anarchic republics like the janapadas. The internet owing to its role in increasing archaeal growth will be in use in a more widespread way creating man-machine hybrids and a syntheistic surrealistic world. Digisexuality will become common. The homo neanderthalic being essentially paganistic will adopt eco-spirituality as their religion and this will bring down global warming along with the fact that the homo neanderthalic population decreases owing to low fertility rate creating lesser amount of methane from the human gut and human activity. The use of fossil fuels will be replaced by environment-friendly solar power and the world will become the most sustainable place. The homo neanderthalis is right hemispheric dominant as well as cerebellar dominance and therefore intuitive, creative and selfless. Art, music, dance and culture will flourish. The right hemispheric cortex being suppressed brings down economic activity as a measure of success and will block the globalization process. Things have a value depending on its synchrony with the human soul. Thus global warming will be controlled and the earth settles into the path of sustainable development. The human homo neanderthalis internet man-machine hybrids will become the norm of the society and the age of kalki will settle. Extreme archaeal endosymbiosis with archaeaons becoming cellular organelle and developing alternate metabolic pathways for survival in extreme environment will make the human beings conquer other planets and other systems and a new species called homo galacticus will develop.

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Extraterrestrial intelligence can exist as a superorganism controlling and creating the universe. In this regard the concept of black cloud of gaseous extraterrestrial superorganism put forward by Fred Hoyle is significant. The black clouds of interstellar gas are made up of

hydrogen. There are small pieces of solid matter at the centre and are linked to form a complex neurological system. Clouds have the capacity to increase the brain size and complexity and become intelligent. A network of extraterrestrial porphyrin molecules fits in well with this concept. Porphyrins have got a wave-particle existence and can arise from the quantal foam of gravitational waves and anti-gravitational waves which creates human consciousness and unconsciousness respectively. A large organized self-replicating information system of porphyrins can function as an extraterrestrial intelligent organism. The intelligent black cloud when it finds a lifeless interstellar cloud creates simple brain system by transfer to the lifeless cloud. This gives a lifeless cloud life and intelligence. Black clouds never disappear, never age and never reproduce. Microbes and extremophiles may have migrated from star systems and other planets and distributed life around the universe. This constitutes the panspermia mechanism of life on universe. The spacecraft, the meteorites, asteroids can move between planets in the star system as well as structures like oumuamua can move between star systems and can have intergalactic travel. Lithopanspermia is a bacteria shielded by an asteroid or comet that can travel around the solar system. Asteroids, comets and oumuamua can contribute to interstellar panspermia and galactic panspermia. Panspermia is the leading cause for evolution of life on earth and changes in human and animal species. There is already intergalactic and intercometary communication structured by the intergalactic giant biological quantal computing master cloud which regulates and controls the universe. The universe, star systems and galaxies interact with the protoconsciousness field and are alive in the panpsychic universe. The human civilization in earth gets modified and reconstructed from time to time by pandemic transfer of cometary genes from the giant intergalactic biological quantal computing cloud- the transfer of archaea producing homo neanderthalis, the transfer of retroviruses producing the homo sapiens and the transfer of COVID 19 producing the syntheistic neanderthalic homo galacticus. This signifies the role of extraterrestrial mediated pandemics like COVID 19 and HIV in human evolution.

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CHAPTER 44
THE ORIGIN OF THE ABRAHAMICAL RELIGIONS, HOMO NEANDERTHALIS AND INDIAN CIVILIZATION

The Harappa–Mohenjo-daro civilization was basically an asuric civilization of Neanderthals who migrated from South India and Lemuria- a continent in the Southern Indian ocean following its breakage consequent to tsunamis and earthquakes. The Asuras built-up a highly developed city-state of Mohenjo-daro and Harappa of which Varuna was the king and Shiva the commander. The Indus river had a dam on it for irrigation and agriculture. There were ports in Dwaraka which traded with Middle-East and Iran. The sister civilizations of neanderthalic Asuras was built-up in Babylon, Iran and Sumeria. The Harappa–Mohenjo-daro civilization was attacked by pagan Caucasian homo sapien-homo neanderthalis hybrids called Aryans led by Vishnu. The Aryans were unequipped to defeat the developed Indus valley civilization. The treacherous Aryans destroyed the dam over the river Indus and flooded the Harappa–Mohenjo-daro civilization brining into decline. The Harappa–Mohenjo-daro citizens were made into slaves and called Shudras. The Aryans formed the upper caste Brahmins who took over the Rig Veda from the Asuras of Harappa–Mohenjo-daro. The languages of Sanskrit and Tamil of the Asuras were also taken over by the upper caste Aryan Brahmins. The asuric rulers of Indus valley Varuna and Shiva were co-opted as rulers of the taken over cities under the guidance of the homo sapien-homo neanderthalic hybrid Aryan Brahmins. Thus, the brahminical vedic civilization came into existence with the inhabitance of Harappa–Mohenjo-daro being out of the pale of the caste system as Shudras. There were Shudra rulers like Varuna and Shiva who cooperated with the invaders. The bulk of the asuric Shudras Harappa–Mohenjo-daro citizens moved out to Central India, Western India, Northern India and mostly to South India establishing their kingdoms under the control and suzerainty of the Aryan Brahmins. The Shudras and Asuras were denied the right to learn the Vedas and perform sacrifices as well as get educated by the Aryan Brahmins. The Shudras and Asuras became trained in the art of war and other skills like manufacturing and trading.

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There developed frictions between the invading hybrid Aryan kings under Sudas and the Harappa–Mohenjo-daro asuric kingdoms of Shudras known as the Battle of Ten Kings in the Rig Veda or Kurushetra war. The war was fought on one side by the homo sapien-neanderthalic hybrid Aryan Devas supported Pandavas of Kuru, Krishna, Panchala, Matsya, Magada, Chedi and Kunti. The asuric neanderthalic Kauravas children of Gandhari by a

process of cloning, had allied kingdoms of Anga, Gandhara, Sindhu, Madra, Kamboja, Bahilka, Trigata, Pragijyothisha, Vetalas, Pisachas, Yavanas, Sakas, Trilinga, Tusharas, Dardic people and other Asuras. The hybrid Aryan kings were the Pandavas whose priest was Brihuspati and the neanderthalic Asuras were called Kauravas with the priest as Shukracharya. There occurred the Mahabharata war between the Asuric Kauravas and the Aryan Pandavas. The Kauravas were defeated and slain and Aryan Pandava supremacy over India was established guided by the Brahminical priest. At the same point of time, in the neanderthalic areas of Middle-East, Iran, Sumeria, Palestine and Arabia the bulk of the population was Hindu. They had their temples and mode of worship akin to vedic Hinduism. The defeated neanderthalic asuric Kauravas lost their kings and under the guidance of their priest Shukracharya migrated to the Middle-East, Central Asia & West Asia as well as South India. The defeated neanderthalic asuric Kauravas under the leadership of the teacher Shukracharya developed a monotheistic Shiva-centered religion in Middle-East and West Asia. The asuric Kauravas later evolved into Jews, Muslims and Semites. Shukracharya felt that the asuric empire was going to be destroyed and established a monotheistic religious worship of the genderless and formless universally dominant Shiva in Central Asia, West Asia and Middle-East. He also built large number of temples of Shiva, Shivalinga as the mode of worship. Shukracharya in his vengeance at the defeat of Kauravas developed an anti-vedic Hindu Philosophy and religion which was monotheistic. Shukracharya was a Shiva worshipper alone and developed the worship of Shiva as monotheism. Shukracharya conceived the idea that he must give Shiva more prominence over Vishnu and Brahma so much so that the concept of formless and genderless Shiva as described in Shivamahapuran becomes the focal point of the monotheistic religion. The basic idea is that if you worship Shiva in form then the devotee transfers prayers to the triad of Brahma, Vishnu and Maheswara, but if just Shiva is worshipped in his universal and true form, then Shiva gains absolute dominance over the universe and the Asuras will dominate the devotees of Devas. Thus worshipping Shiva outside the Dakshas norms and procedures marked a clear-cut separation between sattvik and tamasic believers. Shiva was basically an Asura and commanded the asuric neanderthalic armies of Harappa–Mohenjo-daro. Thus Shukrachara developed a monotheistic religion in which Shiva is just worshipped in his universal and true form and dominates the universe as a formless and genderless entity. This is the root of monotheistic religions which led on to the evolution of Christianity and Islam. Shukracharya was the guru of the Daityas or Asuras who were more inclined towards tamasic and rajasic energies. Rajasic energies pull you towards the affairs of the manifested works, the creative

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aspect of Parabrahma. Tamasic energies are heavy and do not move; they are still and depends on what you make of them. Most people channelize them for attainment of worldly pleasures. Shukracharya's teaching methods include allowing you everything that seems to give you pleasure but slowly spikes that experience that something is missing. You search trying to find that relationship that gives you continual pleasure. They finally realized that relationship can be with your own self. The ultimate pleasure is being with your own self and nothing outside can satisfy you completely. Shukracharya had only one eye like the God of Vikings. He had done a highly difficult penance hanging upside down from a tree praying to Shiva. Indra, the king of Devas and Aryans sent his daughter Jayanti to disturb Shukra. She lit fires around the meditating Shukra but despite the discomfort he continued his tapas with single-minded concentration. Thus ashamed Jayanti begged his forgiveness and married him. Shiva too was pleased and granted Shukara the most esoteric Sanjeevini vidya, the intelligence or essence of the highest life. The Sanjeevini vidya helped to bring life to the body of dead Asuras. Shukra or Venus is the determinant for relationship at all levels from business partners to life partners of duty, harmony, brilliance and moksha. He is also the agent of addiction from alcohol to gambling, sexuality and utter moral ruin. It would seem strange that the agent of moksha Shukra is also the agent of worldly pleasures and debauchery. The monotheistic Abrahamical religions of Middle-East, West Asia, Arabia, Central Asia, Iran and Afghanistan arose out of Shukracharya's monotheistic worship of formless and genderless dominant Shiva. The monotheistic Abrahamical religious believers invaded India and occupied it and established the Islamic age and British rule in India. This lasted for nearly 1000 years. Thus, it can be seen that the Abrahmical religions of Christianity, Islam and Judaism are basically anti-vedic Hindu religions of the Asuras. This developed as a consequence of the defeat of the asuric Shudras of Central and Northern India in the battle of Ten Kings or the Mahabharata war. Vedic Hinduism which is caste system and rituals led by homo sapien-homo neanderthalic hybrid Aryans became the dominant spiritual and political force in India.

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The evidence for it can be found in South India which is dominated by neanderthalic Asuras. There are temples dedicated to Duryodhanan, Shakuni in Kerala. The temples are built and celebrated by the tribal community. The Muslim community first evolved in Kerala and the last Chera king of Kerala converted to Islam and travelled to Mecca to meet the Prophet. There were strong trading relations between Kerala and Arabia. The stories regarding the life of Jesus Christ before the age of 28 and his visit to Banaras is pertinently in

this respect. The Jews are derived from Chandalas and Christ spoke up for the right of untouchables. He was therefore expelled from India by the conservatives. The Kauravas led by Shukracharya would have been made aware of the monotheistic Muslim religion which is the anti-thesis of vedic Hinduism in Kerala. The asuric Kauravas to retain their identity would have got converted to Islam and migrated to more protective pastures of Arabia and Middle-East. The intelligent and rich Kauravas joint with Prophet Muhammad and established settlements with their riches and wealth. The Adishankaracharya noticing that the bulk of the majority Indian Shudra population had chance of getting converted to the Islam developed Advaida incorporating monotheistic Islamic teachings. The Adishankara was born in Kaladi in Kerala. He saved Hinduism and the vedic religion from extinction following the Mahabharata war. The asuric neanderthalic Abrahamic religious believers, the Islamic and British conquerors came back to Northern India as conquerors and established many dynasties. But the country as such remained strongly Hindu based on Advaida vedic philosophy. The other evidence in this favour is the army of Shudras/Jats which went to Arabia to protect and fight Imam Ali the founder of Shia Muslim religion. The Shudras went to fight for their king, but remain Hindus.

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CHAPTER 45

THE OUT OF SOUTH INDIA ORIGIN OF LIFE, HOMO NEANDERTHALIS AND HUMAN SPECIES - THIAMINE AND BIOTIN DEFICIENCY AND HUMAN NEANDERTHALIC BRAIN EVOLUTION - THE DESCENT OF THE WOMAN AND FERTILE BACKWATERS OF KERALA- AQUATIC APES, VANARA TRIBES, PARTHENOGENESIS, NEANDERTHALS, AMAZONIANS AND MALE EUNUCHS- THE LAST REFUGE OF NEANDERTHALS IN SOUTH INDIA

Thiamine and biotin deficiency and human neanderthalic brain evolution

The homo neanderthalis evolved in peninsular India from bonobo monkeys and primates living near the backwaters of Kerala consequent to archaeal endosymbiosis. The archaea extracts thiamine from the primates and anthropocene apes for its own metabolism. Thiamine transport and metabolism also requires biotin. Thiamine and biotin deficiency-related thiamine-biotin dependent basal ganglia disease is common in Kerala. This is due to mutations in thiamine transporter and biotin transporter or due to neanderthalic endosymbiotic archaeal consumption of thiamine and biotin. Thiamine deficiency leads to pyruvate dehydrogenase deficiency and biotin deficiency leads to pyruvate carboxylase definicey. There is no formation of acetyl CoA from pyruvate and the mitochondrial electron transport chain comes to a grinding hault. The cell depends upon anaerobic glycolysis for its energy needs producing the Warburg phenotype. The accumulated pyruvate is converted to glutamate by SGPT. The glutaminate is acted upon by glutamate dehydrogenase to produce alpha ketaglutarate which enters the GABA shunt pathway. This results in accumulation of succinyl CoA which along with the glycolytic intermediate phosphoglycerate derived glycine forms porphyrins. The porphyrins can self organize to form replicating structures called porphyrions. The porphyrins form templates for RNA, protein and DNA synthesis. They symbiosed to form primitive abiogenetic archaea. The ammonia generated by GDH from glutamate derived from pyruvate is used for archaeal energetics. The archaea are ammonia oxidizing for bioenergetics.

The Warburg phenotype results in the hypoxic state. Hypoxia leads to brain hypertrophy produced by HIF alpha. The brain hypertrophy of the bonobo monkeys and anthropocene apes in backwaters of Kerala especially the parieto-occipital cortex generated the homo neanderthalic brain. One evidence of it is the widespread consumption of brown rice in Kerala rich in thiamine.

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Thiamine deficiency affects the mid-brain, pretectal area and mammillary bodies leading to the Wernicke-Korsakoff's syndrome of confabulation psychosis. This disorder of making up of imaginary stories would have led to the organization of homo neanderthalis as a group. Imaginary story telling is important in formation of larger groups.

The descent of the woman and fertile backwaters of Kerala- aquatic apes, Vanara tribes, parthenogenesis, Neanderthals, Amazonians and male eunuchs- the last refuge of Neanderthals in South India

Somatic parthenogenesis occurs due to transformation of the somatic cell to pluripotent stem cell which can develop to parthenogenetic embryos. This results from hybridisation between two different species homo neanderthalis and homo sapiens. This interspecies hybridisation produces intragenomic conflict and parthenogenesis. Parthenogenesis can be induced by stress of climate change and by endosymbiotic archaea and RNA viroids. The intragenomic conflict consequent to interspecies hybridisation results in upregulation of the tryptophan catabolic pathways produces increased amount of kynurenine, immunosuppression and immune escape of the parthenogenetic embryos. The interspecies hybridisation and intragenomic conflict results in reptilian gene expression and digoxin synthesis. The digoxin produced by endosymbiotic archaea results in upregulated tryptophan transport and catabolism over tyrosine. The increased kynurenine catabolism in Neanderthals results in immune escape and endosymbiotic archaeal growth. The endosymbiotic archaeal growth results in neanderthalisation of the species. The neanderthalisation of the species and interspecies hybridisation and intragenomic conflict results in porphyrias and increased porphyrion mediated low level EMF perception, cortical atrophy and cerebellar dominance. This produces a cerebellar cognitive affective disorder with autistic features, impulsivity, aggressiveness, power lust, increased sexual desire, alternate sexuality, criminality, cannibalistic features and anarchic social mores. The Neanderthal species owing to endosymbiotic archaeal growth and stem cell transformation had an asexual mode of reproduction with parthenogenesis. This results in female dominance, Amazonian syndrome, a culture of male eunuchs and matriarchy. The interspecies hybridisation and intragenomic conflict results in a SLOS phenotype with decreased cholesterol synthesis. This produces decreased sex hormone synthesis resulting in asexuality and alternate sexuality. The Neanderthals were matriarchal and worship the mother Goddess. The reptilian gene expression and SLOS phenotype results in generation of serpentine features. The genes for the primitive reptilian brain complex get expressed with aggression,

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violence, impulsivity, cannibalism, anarchy, immorality, lust for power and dominance. The SLOS phenotype results in development of primitive features like the development of tail or cauda, cleft chin, prominent thin long teeth and canines, freckles, scales in the skin and syndactly or webbing. The digoxin synthesis and decreased tyrosine transport results in reduced dopamine and melanin synthesis contributing to a tribe of anarchic white Gods. The reptilian gene expression and digoxin synthesis leads to sympathetic hyperactivity and ability to regulate the body temperature in alignment with environmental temperature producing cold bloodedness. The archaea induced fructolysis and fructosemia owing to induction of aldose reductase results in increased lipid and mucopolysaccharide synthesis and hibernation syndrome contributing to obesity and increased subcutaneous fat like reptiles. The evolution of cervical rib, the widow's peak in the eye brows and prominent second toe in the feet is due to increase of recessive traits consequent to inbreeding. The inbreeding results from the autistic phenotype and reduced social contact and social withdrawal. This autistic phenotype with the inbreeding and parthenogenesis leads to decreased genetic diversity and extinction of Neanderthals. The Neanderthals have increased subcutaneous fat, scaly skin which is partly due to albinism and UV exposure as well as due to cholesterol synthetic defect, increased salt secreting eccrine sweat glands and dominant tryptophan pathway and serotonin synthesis producing pineal gland or third eye. The increased tryptophan catabolism produces an epidemic oshtoran syndrome. The neanderthalisation produces an epidemic anarchic syndrome. The neanderthalisation also produces the syndrome of male eunuch and matrilineality. The Neanderthals were mostly parthenogenetic. The cerebellar cognitive affective disorder and actinidic archaeal magnetite and porphyrion induced quantal perception resulted in equality and universality. The primitive Neanderthal tribes are represented by the Saxons, Sakas, Basque, Etruscans, Dravidian races, the Celts and Berbers. The most dominant Neanderthal tribe is the Anglo-Saxons which created an equal society with a universal culture which is American, a universal language which is English, a universal monetary system represented by the dollar and the unification of all ethnicity in the American dream of tolerance and inclusiveness. The Neanderthals had serpentine features and Neanderthal cultures all over the world is represented by serpent worships as seen in Sumeria, the Dravidians of South India, Thoth of Egypt and in Mexico. The Naga tribes and Naga lore of South India represents the Neanderthal culture. The modern version of serpent worship is seen in the symbol of medical profession, the representation of the dollar and in free masonry. Free masonry of the Anglo-Saxons incorporates all religions and is the first

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universal religion and is neanderthalic. The neanderthalic populations were represented by particular blood groups, the universal donor O Rh –ve and AB Rh –ve, the universal receiver.

The Neanderthal phenotype gives clues as to the origin of the humans. The Naga tribes of South India were hypothesized to originate in the ancient Lemurian landmass which got broken up by tsunamis and earthquakes. The remnants of the Neanderthal phenotype are seen in the Australian aboriginals, the New Zealandian Maoris, the Dravidian Tamils and Nairs. These societies are predominantly matriarchal and serpent worshipping. The homo neanderthalic possibly arose in the Lemurian oceanic landmass supporting the theory of the aquatic ape origin of humans. The accepted theory of human origin postulates the origin of humans from primates in the African savannahs. Several points give clue to an origin of the human species in water. The neanderthalic behaviour can be compared to the behaviour of the bonobo monkeys or lemurs seen in the ancient Lemurian continent. The homo neanderthalis would have originated from the bonobo monkeys in the Lemurian backwaters communicating with the sea. The bonobo monkeys owing to shortage of food would have started foraging the backwaters and sea for fish and tubers of water lilies. The fish contains essential fatty acids like docosa hexaenoic acid and tubers contain plenty of carbohydrates. The brain is exclusively dependent on carbohydrates and ketone bodies for energy. The essential fatty acids increase the brain growth. The brain growth in humans is called encephalisation which is more than in primates and is equivalent to sea mammals like the dolphin and whales. The bonobo monkeys would have waded into water and stood in water generating the phenomena of bipedalism. This would have freed their hands to catch fish and break shellfish to generate food. This would also have freed the hands to collect and eat the tubers of water plants. The human species lack hair unlike the primates but like the aquatic mammals. The human species have increased subcutaneous fat like aquatic mammals and unlike primates. The human beings have got eccrine sweat glands and tear glands useful in a watery environment. The human trachea is placed down in the neck unlike that in primates where it is more nasal. The human language points to an aquatic origin for human species. For the human language to develop you have to consciously control your breathing which does not exist in primates but in humans and aquatic mammals. The humans have the diving reflex. The smooth skin with sparse hair and thick subcutaneous fat for insulation points to an aquatic origin for humans like aquatic whales and dolphins. The webbed feet and hands also point to an aquatic origin. The sebaceous glands with its greasy secretion point to water-proofing in humans and aquatic origins. The homo neanderthalis unlike the homo sapiens is

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more of an aquatic swimming type. The homo neanderthalis had longer lungs and increased respiratory capacity which helped them to dive into water and float in water. The homo neanderthalis owing to their SLOS phenotype and albinism had vitamin D deficiency. Vitamin D is synthesized from cholesterol. The homo neanderthalic bone was thin as compared to the darkened vitamin D rich homo sapiens. The long lungs and the thin bone helped the homo neanderthalis to float in water. The origin of paranasal sinuses were for the human species to hold its head above water. The human beings sexual behaviour is like aquatic mammals and unlike primates with front to front population. All these differences point to an aquatic origin for the human beings or an aquatic ape hypothesis. The homo neanderthalis originated from the bonobo Lemurian monkeys which waded into water to search for food. The bonobo monkeys sexual behaviour and promiscuousness and alternate sexuality are comparable to homo neanderthalis. The homo neanderthalis arises owing to archaeal endosymbiosis. The waters of the ocean and backwaters are rich in marine archaea which are capable for acetogenesis and methanogenesis. The backwaters and sea of the South Asian peninsular landmass is rich in actinides, the bathyarchaeota. They are capable of acetogenesis and are a source of organic carbon. The actinides would have formed scaffolds for the formation of complex life molecules like RNA, DNA, protein, isoprenoids and complex carbohydrates. This would have produces RNA viroids, DNA viroids, isoprenoid organism and prions on actinidic surfaces which would have symbiosed to form archaea and eventual multicellular organisms. The multicellular organisms arising on abiogenetic actinidic surfaces in the backwater-ocean connections seen in Southern peninsular India which broke away from the Lemurian landmass would have evolved into eukaryotes, prokaryotes, multicellular organisms and symbiotic plants/animals. The bonobo Lemurian monkeys would have evolved into homo neanderthalis by archaeal endosymbiosis in the actinidic shores of backwaters, lakes and oceans of peninsular India. The remnants of homo neanderthalis is seen in Australian aboriginals, Maoris and Dravidians which are all matriarchal and serpent worshipers. The aquatic ape and homo neanderthalis would have evolved in the actinidic sand shores of backwaters and lakes of Lemuria and peninsular India. The Dravidian communities are matriarchal and female dominant. There is a high degree of consanguinity and inbreeding in the Dravidian matrilineal communities. Parthenogenesis would have been dominant in such communities with matriarchy producing syndromes of the male eunuchs and oshtoran syndromes. The homo neanderthalis ate a carnivorous diet. The teeth were longer compared to homo sapiens and the canines were prominent comparable to fangs of snakes. The cows and bulls were domesticated by the homo neanderthalis which

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were originally hunters and warriors hunting on mammoths. The domestication of cows and bulls resulted in a high consumption of milk and meat including beef. This resulted in the generation of a lactose tolerant adult population. The gene for lactose tolerance arose 12,000 years ago. The relationship between the cows and Neanderthals could be described as parasitic obligate symbiosis. The origin of cow worship and bull worship in peninsular Indian religions can be related to it. The increased consumption of a carnivorous diet of milk and meat resulted in increased tryptophan intake and catabolism generating more of kynurenines producing immune suppression and immune escape required for parthenogenesis. The immune suppression also produced cold bloodedness of Neanderthals for survival in the cold watery climate. The elements of this culture are still seen in the matriarchal Dravidian communities of peninsular India. The actinidic sea shores and backwater shores of peninsular India is where the homo neanderthalis or the aquatic ape originated. The culture of the Dravidian peninsula is matriarchal and the religious traditions still continue with serpent worshipping culture. This can be called as the mermaid culture. The aquatic ape theory finds a echoes in the culture of peninsular India. There were monkey kingdoms with aquatic apes building even land bridges in the sea as noted by the Ramayana epic. The myth of Hanuman and his army of warrior primates or aquatic apes is pertinent in this context. The warrior aquatic apes were supposed to have built the land bridge between Sri Lanka and peninsular India. The warrior aquatic apes had kingdoms governed by kings like Bali and Sugreeva. The primate warriors were intelligent and could move about in the ocean and mangrove swamps and behaved like aquatic apes. The homo neanderthalis and human species would have originated in the backwaters of the southern tip of India. There have been discoveries of Paleolithic sites in Kerala especially in northern and central Kerala. This points to a **out of South India** origin of homo neanderthalis and human species.

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The human hairlessness, thick subcutaneous fat, webs in the feet and toes, shape of the nostril all point to a watery origin for the human race in mangrove swamps, backwaters and seas. The presence of diving reflex in humans, sweating, tearing, descended human larynx in the neck, hair tract patterns, the presence of hymen and vernix caseosa in babies like seals point to a watery origin for humans. The reproductive behaviour of humans with front-to-front population like aquatic mammals points to the watery origin for humans. The great apes would have come down from the trees and went through an aquaboreal phase where it waded through swamps feeding on molluscs, fruits and fish producing bipedalism. The need to excrete large amount of salt in sea or brackish water leads to the origin of tears and eccrine

sweat glands. The human nose is protruded unlike that of primates to protect it from water. The human hairlessness, thick subcutaneous fat and sweating point to the watery origin for humans and bipedalism. The encephalisation of the brain was due to the large intake of omega-3 and omega-6 fatty acids from fish. The human jaw is short with short teeth unlike Chimpanzees pointing to eating of marine food. All naked mammals are aquatic like the dolphin, the manatee, elephant, pig and rhinoceros. The human beings are the only naked apes. The increased subcutaneous fat or blubber in human babies and vernix caseosa of babies point to a watery origin for human species. The human beings have the lacrimal glands and sweat glands to excrete salt in a sea environment. The human babies are plump with 16% body fat and the human milk contains 25% fat. The babies roll over on their body and float in water with their nose in air. The fact that human babies can swim, points to a watery origin for the human species. The Chimpanzees' hand is light and strong to hang from trees. The human babies hand is too heavy and weak and can grasp on to the hair of the mother while swimming in water. The human babies have developed the grasp response for this type of evolution. The human species female has long oily sebum coated scalp hair. The infant chimps have got a strong neck which is kept steady. The human baby attains neck steadiness at six months, but if the baby is placed in water the neck becomes strong. The human speech arose due to the conscious control of respiration which the chimp cannot. The speech also owes its origin to the position of the larynx in the neck. The pincer grip of humans is developed to get meat out of shell fish and mussels which is called as precision grip. This theory was put forward by Elaine Morgan. The backwaters contain water lilies and tubers whose roots were consumed by the primitive humans along with fish, mussels, snails and shell fish. The water lily and lotus roots and leaves contain alkaloids like nupharine and aporphine which are psychoactive and gives rise to the dream state of Neanderthals. The lotus and water lilies are associated with creation myths like that of the sun God Ra emerging from the lotus in primordial waters and the Brahma the creator seated on the lotus. The homo neanderthalis emerged first in the Lemurian landmass which was more like a big island susceptible to breakage to independent landmasses owing to widespread tsunamis in the region. This would have lead to inbreeding in the Neanderthals leading on to loss of genetic diversity and expression of reptilian genes. This would have also contributed to the eventual extinction of Neanderthals. The aquatic ape would have arose as homo neanderthalis in the Lemurian landmass and its breakaway regions like the backwaters linked to the sea regions of Kerala with actinidic sands. This is indicated by the persistence of matrilineal society in the Dravidians of Kerala and the detection of endosymbiotic archaea in the blood of Kerala

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population. The psychometric neanderthalic quotient is high in the population of Kerala with a high incidence of autism. Matrilineality and consanguinity is common among the Dravidian Nair population of Kerala. The Dravidians tend to have a Neanderthal phenotype. The Dravidian Nairs are postulated to have a Scythian origin. Serpent worship, serpent music and serpent dances are common in Kerala. The communities in Kerala are mostly carnivorous and consume beef. The culture in Kerala is more tolerant and Keralites migrate all over the world and mix with different societies. Tolerance and inclusiveness is a feature of NQ quotient. Serpent temples are widespread in Kerala. Kerala has got a higher incidence of Neanderthal genomic sequences related diseases like autism, schizophrenia, ADHD, addictions, metabolic syndrome, autoimmune disease and cancer. It is tempting to locate the origin of the upright aquatic ape in the extended backwaters and lakes of Kerala with its connections to the sea and its actinidic sand rich shores. The backwaters are rich in fresh fish and mussels and water lilies and lotuses giving tubers and roots. The homo neanderthalis evolved from archaeal endosymbiosis and marine archaea are dominant in the seas of the Indian ocean and backwaters of Kerala. Serpent worship is a dominant theme in the Dravidian Nair culture and serpent God Anantha is the dominant deity. This tempts us to speculate on the origin of bipedalism, human species and homo neanderthalis in Kerala. The homo neanderthalis and human species would have originated in the backwaters of the southern tip of India, Kerala. There have been discoveries of Paleolithic sites in Kerala especially in northern and central Kerala. This points to a out of South India origin of homo neanderthalis and human species.

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The origin of the aquatic ape points to the dominant role for the female of the species in human evolution. Human evolutionary theories have focussed on the hunter gatherer and tool maker males. The watery origin of bipedalism and human species points to a dominant role for woman in human evolution. The body anatomy of the females with pendular mammary glands and rounded glutei are for floating and buoyancy and not for sexual attraction. This produces a gynocentric approach to evolution as against an androcentric approach. Evolution was basically meant for protection and rearing of children. Humans have evolved in swamps, backwaters and sea and are not biologically or socially inferior to men. The homo neanderthalis have got features unlike that of chimpanzees. The social patterns of homo neanderthalis can be compared to the bonobo monkeys. The bonobo monkey society is female centered and egalitarian. Sex is a part of social relationship and serves as a substitute for aggression. The bonobo monkeys have different types of sexuality heterosexual, and male to male and female to female. The frequency of sexual interaction is more but the

reproductive rate of bonobo monkeys is the same as chimpanzees. The chimpanzees evolved in the open dry savannah while the bonobo monkeys still lived in trees and hanged down from trees. The tree habitat of the bonobo monkeys lead them to an evolutionary form of life where they can hang from mangrove trees in swamps and eventually wade in water. The bonobo monkeys are pigmy monkeys with male weighing 43 kg and female 33 kg. They are omnivorous and eat fruits, small amount of vertebrates and invertebrates. They have imaginative plays and have sex in missionary positions. They have wide variety of sexuality and group behaviour. Sex was a means of social relationships. The female bonobos bonded among themselves and led the community. The male bonobo is attached to his mother and depends on her for protection throughout life. The bonobo society can be compared to a matriarchal female dominant Neanderthal society. The homo neanderthalis and human species would have originated in the backwaters of the southern tip of India. This points to a out of South India origin of homo neanderthalis and human species. The society in Kerala is predominantly matriarchal and female dominant. This provides anthropological evidence for this hypothesis.

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The female dominant model of human evolution raises the question of who evolved first- the male or the female. The original fossils of human species are predominantly female and the male fossils evolved after billions of years. The original human species would have been a cluster of female bipedals in swampy waters feeding on tubers of water lilies and lotus as well as fish, mussels and shell fish. The women can reproduce by parthenogenesis like lower animals. Therefore it is natural for the female of the species to evolve first. The sexual relationship in such female only societies in primodial times was lesbian. The evolution of males occurred at a later date. The macho model of human evolution with male hunter and male toolmaker and a female accomplice evolving together is highly unlikely. The next stage of human evolution has been postulated to be interspecies hybrids. This was put forward by Eugene McCarthy. McCarthy pointed to several features of men of humans similar to pigs. Pig organs can be transplanted to humans without rejection. The pigs like humans are hairless, have thick layer of subcutaneous fat, protruding nose and heavy eye lashes. The pig genetic sequence contains similar SINE element ALU as humans. The phenomenon of crossing the species barrier is represented by the generation of the swine flu epidemic in humans. The early bipedal female only human species would have generated human pig interspecies hybrids. This would have generated interspecies hybrids of males and females. The male sexual organ corresponds to the tail of mammals. Similarly sex organs of species

like snakes correspond to limb buds. The human embryo in its various stages of development can be compared to fishes, amphibians and lower animals. Interspecies hybrid would have led to the development of male and female of the species. The water mammals like cows, bulls, pigs, elephants, rhinoceros, turtles, crocodiles, water snakes and giant tortoises would have contributed to the generation of interspecies hybrids. This would have generated a population of both male and female bipedals in the swamps with different type of sexual interactions-heterosexual, bisexual, homo sexual and lesbian. Genetic diversity is required for a species to survive. Thus heterosexuality as a mode of sexual behaviour would have become acceptable to society as such. Bacterial and archaeal conjugation with human cells have been described. Chimeras of humans and animals have been produced in labs. Interspecies hybrids have been generated in human labs and populations have been produced. Interspecies hybrids include the dzo between yak and cattle, zubron between cow and bison, cama between camel and illama, yakulo between yak and buffalo, sheep-goat and mules. This exemplified by the Plant of the Apes. The interspecies hybrids would have been protected from pre-zygotic and post-zygotic isolation and destruction by the phenomena of immunosuppression and immune escape mediated by tryptophan catabolite kynurenine. A fish diet in swampy waters is rich in tryptophan. The Hindu myth of creation of Matsya the fish, Koorma the tortoise, Varaha the boar and Narasimha the lion point to the generation of interspecies hybrids as the main lynch point of evolution. The generation of human brain structure also depends upon interspecies hybridisation. The reptilian complex of the brain is dominant in Neanderthals. The reptilian complex is seen in amniotes which include mammals, reptiles and birds. The reptilian complex of the reptilian brain includes the basal ganglia, the brain stem and cerebellum. This forms the basis of the cerebellar cognitive affective disorder in Neanderthals. The reptilian brain is the site of imagination, intuition, instinct, compulsivity and dreams. It communicates by symbols and archetypes. It is the site of obsessive compulsive disorder, superstition, ritualism, slavishness and conformation to all way of doing things. It is the site of territoriality, aggression, racism, violence and hypersexuality. The reptilian complex is dominant in amphibians, fishes and reptiles. The Neanderthal brain has got cerebral cortical atrophy and cerebellar dominance. The reptilian brain and reptilian genes are dominant in Neanderthals pointing to interspecies hybridisation of the first evolving Neanderthal females and matrilineal female only Neanderthal society. The interspecies hybrids are signified by the importance of even toed ungulates like pig and cattle in human culture and religion. The even toed ungulates include cattle, pig, deer, camel, sheep, goat and hippopotamus. The odd toed ungulates include rhinoceros and horses. The aquatic cetaceans like whales, dolphins and

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purpoises evolved from even toed ungulates. Dolphins can communicate with humans. The aquatic cetaceans and even toed ungulates together form a family called cetardiodactyla. The even toed ungulates form large social groups with hierarchy, harem groups and bachelor groups. They mark their territory through glandular secretions. The ungulates can swim and whales and dolphins can gallop in water. The pig antigens have great similarity with human antigens and pig organs can be xenotransplanted into humans. The rejection is due to the presence of retrovirus in the pigs which infects humans. The targeted deletion of retrovirus related DNA from pigs makes pig a valuable source for organ transplantation. The retroviral deleted pig has been cloned and developed into embryos and implanted into sows. The pigs serve as a reservoir for human organ transplant. Hog organs can be transplanted to humans if immunized against human serum. Horse serum is used to develop tetanus antibodies and snake anti-venom. The consumption of beef leads to the development of prion disease in humans. Porcine insulin can be injected into humans and porcine heart valves can be transplanted to humans. Cow products like milk, dung and urine are used as human medicines. Human stem cells injected into pig embryos have resulted in the development of human pig chimeras. This human pig chimera can be used for organ transplantation. The development of human-ungulate chimera embryos points to the importance of interspecies hybridization in human evolution. This is signified by the worship of cow as Kamadhenu or mother Goddess in Hindu culture, the worship of Varaha, the boar as one of the avatars of Vishnu and the religious relationship between Satan and pigs in Semitic religions. The Hindu star signs in religion and astrology have a figurative animal representation. This points to interspecies hybridization playing an important role in evolution.

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The aquatic ape evolved from bonobo monkeys into homo neanderthalis in the brackish back waters of the peninsular India. The Neanderthals evolved by archaeal endosymbiosis. The archaea can oxidize cholesterol and ammonia for its energetics. The archaea evolved in hydrothermal vents in the ocean and ammonia was formed from nitrogen with iron sulphide as catalyst. Liquid ammonia can replace water as the solvent of life. Amidation can generate amides which can form polypeptides. Liquid ammonia can replace water in DNA and RNA. The primitive archaea obtained energy by ammonia oxidation. The origin of life in other planets and galaxies would have also used ammonia as a solvent. The initial primitive organism would have been an isoprenoid organism. Acetyl CoA can form on actinidic surfaces by abiogenetic mechanisms and generate isoprenoidal compounds like cholesterol and ubiquinone. Cholesterol oxidation using actinide catalyst can generate

pyruvate consequent to ring oxidation. The pyruvate by transamination can generate glutamate which can be dehydrogenated to produce ammonia. Ammonia oxidation can subserve archaeal energetics. Ammonia can combine with carbon dioxide to generate urea which serves as a storage form of ammonia. Urea synthesis has been demonstrated in the Neanderthal brain and to some extent in homo sapien brain and is related to neurodegenerative disorders. The saltiness of blood points to an origin of life in water especially brackish water of backwaters. The brackish waters of lakes communicating with sea can generate organic molecules. The lakes adjacent to volcanoes can generate wet-dry cycles which can lead to abiogenesis. Brackish lakes adjacent to volcanoes can be seen in the ancient Lemurian continent in the Indian ocean of which peninsular India is a part of. The most primitive protocell would have been a droplet capable of division and replication. This forms the basis of the membrane first theory of origin of life. Lipid droplets formed of isoprenoids would have been the primitive protocell or isoprenoid organism. The incorporation of ubiquinone would have permitted a primitive electron transport chain and ATP synthesis. Lipid droplets are primitive cellular organelle seen in human cells. Cell arises as a symbiotic system with the mitochondria being a rickettsia, the cytoskeleton being a spirochaete, the cell envelope an archaea, the peroxisome an acinetobacter aceti and the nucleus a pox virus. The isoprenoid organism would have been the original primitive protoarchaea. The cholesterol would have been oxidized to produce pyruvate and ammonia. Ammonia oxidation would have subserved the lipid droplet archaea energetics. The ubiquinone would have served the purpose of a primitive electron transport chain. The lipid droplet organelle can interact with lysosomes, mitochondria, nucleus and endoplasmic reticulum. The lipid droplet is formed of neutral lipids, triglycerides and steryl esters in the endoplasmic reticulum. The lipid droplet is a cell organelle. The lipid droplets also contain proteins and are storage vesicles preventing them from degradation. The lipid droplets can interact with porphyrions as demonstrated by farnesylation of heme. The porphyrion can get incorporated into the lipid droplet by isoprenylation. The porphyrion can have an electron transport chain function. The porphyrion can serve as a template for the formation of RNA and DNA. Thus lipid droplet porphyrion complexes would have served as an efficient protocell which evolved into eukaryotes, prokaryotes and archaea. The lipid droplet porphyrion complexes can also lead on to evolution of RNA and DNA viruses. The lipid droplets serve as a cell organelle for viral replication as demonstrated by HCV virus. The lipid droplet organelle serves as a platform for virion assembly of several viruses including HCV virus and dengue virus. The lipid droplets are taken up by bacteria like Chlamydia

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forming bacterial inclusions. The lipid droplet would have been the initial primitive lipid droplet archaea which after complexion with porphyrions would have generated RNA and DNA sequences as well as polypeptides forming more complex archaea. The lipid droplet porphyrion complexes would serve the purpose of abiogenetic archaeal replication with porphyrions serving as template. The lipid droplet porphyrion complexes serve the purpose of generating new RNA and DNA viruses which can get integrated into human genome or stored in lipid droplet organelle. The lipid droplet organelle serves the purpose of viral replication and spread by acting as a platform for this purpose. The lipid droplet can interact with the mitochondria producing induction of uncoupling proteins (UCP) and uncoupling of the electron transport chain. Fatty acids can stimulate UCP proteins. This has been demonstrated in the brown fat mitochondria. The lipid droplet induction of UCP proteins inhibit mitochondrial oxidative phosphorylation and activate glycolysis producing the Warburg phenotype. Lipid droplets contain diacyl glycerol (DAG), fatty acyl CoA and ceramide. They can produce insulin resistance. Lipid droplets are associated with fatty acyl CoA synthase, stearyl CoA desaturase and SREBP. Lipid droplets are dominant in stem cells, cancer cells and germ cells and induce their formation. Lipid droplets are seen in cancer cells and lead to refractory cancers as well as chemotherapy resistance. The lipid droplets are associated with histone proteins. Histone proteins when combine with DNA makes it toxic. The lipid droplets store the histone proteins and release them when required for chromatin formation. The lipid droplets are thus involved in histone acetylation and deacetylation by HDAC and HAT enzymes. Lipid droplets thus regulate gene expression. Lipid droplets are seen in associated with nucleus and nucleolus. Lipid droplets are seen in primordial germ cells and parthenogenetic cells and can induce parthenogenesis. The lipid droplet led to the evolution of archaea in brackish waters as well as the eventual evolution of homo neanderthalis. The lipid droplet organelle in homo neanderthalis induces germ cell and stem cell formation and parthenogenesis and asexual reproduction contributing to matriarchy in homo neanderthalis. The lipid droplet organelle is evolutionarily the original protocell and primitive archaea and forms the basis of endosymbiosis and neanderthalisation. The archaea binds to the toll receptor produces mitochondrial dysfunction and inhibition of TCA cycle and resultant activation of the glycolytic pathway for energetics. This produces the metabolic Warburg phenotype in homo neanderthalis. The homo neanderthalis depends upon ketone body oxidation for its energy needs and subsists on ketogenic diet. The consumption of ketogenic diet results in amino acid catabolism and generation of ammonia which can be oxidized by the archaea for its energy needs. The ammonia can combine with carbon dioxide

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producing urea which can be acted upon by archaeal urease generating ammonia again. The urea can inhibit mitochondrial function and produce protein modulation by carbomylation. It can thus affect the metabolonome. The inhibition of the TCA cycle channels acetyl CoA to the mevalonate pathway synthesizing cholesterol which can be oxidized by the archaea for its energy needs. The cholesterol ring oxidation generates pyruvate which is acted upon by SGPT generating glutamate which is catabolised by glutamate dehydrogenase generating ammonia. The ammonia can be oxidized by the archaea for its energetics. The ammonia can also be converted to urea by the urea cycle for ammonia storage. The urea mediated carbomylation of proteins results in somatic cell dysfunction and resultant takeover of the human cells by endosymbiotic archaea producing a zombie syndrome with the cell machinery taken over for cholesterol synthesis and oxidation as well as ammonia formation and oxidation subserving archaeal energetics. Urea serves as a substrate for ammonia storage. The aquatic ape evolved in the brackish backwaters of peninsular India and Kerala. The aquatic ape evolved from the bonobo monkeys and eventually developed into homo neanderthalis. The homo neanderthalis and the aquatic ape had a watery home of salty brackish water and the urea served as a substrate for balancing the salt content of the body fluids against the high salt content of the brackish water. The aquatic ape and the homo neanderthalis fed on fishes, mussels, crabs as well as tubers of water plants and these habits did not need strong males and was carried out by dominantly by females. The archaeal cholesterol catabolism produced low level of sex hormones in the aquatic ape and homo neanderthalis producing an asexual phenotype with alternate sexual behaviours. This colony of asexual phenotypes was matriarchal and female dominant with essentially served by groups of subservient male eunuchs. The high salt content of the body due to a life in brackish waters served to induce parthenogenesis in the dominant female. The urea synthesis from ammonia was also important in the induction of parthenogenesis. Urea can induce female germinal cells to develop into parthenogenetic embryos. Urea can promote transformation as well as preservation of stem cells and germ cells. The endosymbiotic archaea can produce germ cell transformation as well as stem cell transformation and induce parthenogenesis. Parthenogenesis would have been the dominant form of reproduction in the aquatic ape and homo neanderthalis. Urea synthesis can occur in the liver, the skin and brain of homo neanderthalis and to some extent in homo sapiens. The homo neanderthalic brain evolved due to endosymbiotic magnetotactic archaeal endosymbiosis. The magnetotactic archaea and porphyrions can produce increased absorption of low level EMF producing cortical atrophy and cerebellar dominance. This produces the cerebellar cognitive affective disorder homo

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neanderthalic brain phenotype with its impulsive behaviour, social withdrawal, creativity and autistic as well as schizophrenic phenotypes. The endosymbiotic archaea uses ammonia as an energy substrate and ammonia is stored in urea molecule for use as and when it is required. The urea synthesis in the homo neanderthalic brain is significant in this respect and serves the purpose of endosymbiotic archaeal energetics. The homo neanderthalic brain can be considered as quantal computing magnetotactic archaeal colony. The homo neanderthalic neuronal cells and circuitry are converted to zombie circuits by neuronal and synaptic protein carbomylation by brain urea. Thus the brain urea synthesis is of great importance in the functioning of the magnetotactic archaeal colony dominated zombie brain of homo neanderthalis. The urea synthesis is also important in the adaptation of the aquatic ape and homo neanderthalis to the salty brackish backwaters of Kerala and maintaining balance between sodium content of body fluids and brackish salt water. The urea molecule is also important in the generation and preservation of stem cells and germ cells as well as their parthenogenetic induction required for formation of embryos by asexual reproduction. Thus the ammonia oxidation and urea synthesis is crucial in endosymbiotic archaeal energetics which gives life to the zombie scaffold of Neanderthal body and brain, the maintenance of the magnetotactic archaeal colony network which functions as the controlling power in the Neanderthal zombie brain and in the generation of stem cells and germ cells and the induction of parthenogenesis.

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Climate induced archaeal endosymbiosis leads to stem cell transformation and germ cell generation leading to parthenogenesis. This leads to mitochondrial dysfunction and glycolytic activation contributing to the Warburg phenotype. Microembryos parasatize various tissues like the brain, heart, liver and lung. The microembryos contain lipid droplets organelle which forms a reservoir for archaeal replication. The Warburg phenotype leads to blockade of pyruvate dehydrogenase and the TCA cycle. The pyruvate gets channelled to GABA shunt pathway generating succinyl CoA. The Warburg phenotype induced increased glycolysis leads to generation of phosphoglycerate, serine and glycine. Glycine can combine with succinyl CoA generating delta amino levulinic acid which forms the basis of porphyrin synthesis. The porphyrins can form a template for formation of the RNA viroids, DNA viroids and prions as well as isoprenoid lipid organisms. All of them symbiose to form archaea by template mediated replication. The archaea contains magnetite and porphyrins which are capable of absorption of low level of EMF. This leads to quantal perception of low level EMF leading to cortical atrophy and cerebellar dominance which characterised the

Neanderthal brain. Neanderthals tend to have a cerebellar cognitive affective disorder. The archaeal network in lipid droplets in the brain is capable of intersynaptic transport and functions as a giant magnetotactic archaeal colony in the zombie brain and controls brain functions. The giant neuronal magnetotactic archaeal colony is capable of quantal perception and consciousness. This produces what is called as the zombie syndrome. The Warburg phenotype that is generated by endosymbiotic archaea leads to germ cell and stem cell transformation and parthenogenesis. The parthenogenetic microembryos with its lipid droplet organelle reservoir of archaea forms the substrate of the Neanderthal brain and its magnetite and porphyrion content is capable of quantal perception and consciousness. This can lead to schizophrenic and autistic phenotypes. The parthenogenetic microembryos with its Warburg phenotype studding multiple tissues produce pathogenetic state. The Warburg phenotype can produce insulin resistance and diabetes mellitus as well as vascular thrombosis. The Warburg phenotype and parthenogenesis can lead to oncogenesis. The Warburg phenotype and parthenogenetic embryos can lead to autoimmune disease. The Warburg phenotype and increased glycolysis produces immune activation. The Warburg phenotype can lead to increased glycolysis and glyceraldehyde 3-phosphate mediated nuclear cell death and neurodegeneration.

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Somatic parthenogenesis is due to climate change. Climate change can produce archaeal endosymbiosis and archaea and archaeal RNA viroid induced parthenogenesis. In response to stress somatic cells can get transformed to stem cells by endosymbiotic archaea. Stem cell metabolonomics- anaerobic glycolysis, PDH dysfunction, CoQ deficiency mitochondrial dysfunction, branched chain keto acid dehydrogenase dysfunction, homo cystinuria and genomic demythelation, porphyrias and reactive oxygen species generation, SLOS (Smith Lemli Opitz) leading to cholesterol depletion, low sex hormones, vitamin D deficiency and bile acid deficiency. Stem cells can undergo endoreduplication, cell fusion and budding and bursting like bacteria producing polyploidy. These polyploidal cells can become parthogenic embryos. The polyploidal cells are stress resistant and genomically unstable. The polyploidal cells are genomically, metabolically and phenotypically different and unstable. They can get converted to different tissues like brain, liver and heart forming somatic embryos. Multiple somatic embryos with polyploidy produces multiple personality disorders – schizophrenia, autism and mood disorder. Multiple somatic embryos with polyploidy are antigenic and can produce an autoimmune disease. Multiple somatic embryos with polyploidy are genomically unstable can produce cancer. Parthogenesis can lead to social

changes including matrilineal societies, alternate sexualities and different identities. Multiple somatic embryos with polyploidy are metabolically and genotypically unstable lead to neurodegeneration. Multiple somatic embryos with different metabolic instability can lead to metabolic syndrome. Archaea and RNA viroid induced mitochondrial dysfunction and upregulated glycolysis resulting in stem cell transformation of somatic cells. The somatic cells which are stem cell transform in the setting of immune activation and cytokine secretion can get converted to germinal cells – sperm and ova. This can result in fertilisation and parthenogenesis. Archaeal digoxin can produce intracellular magnesium deficiency and failed mitosis due to spindle dysfunction. This can produce polyploidal cells. The polyploidal cells can assume stem cell functions. The stem cells can mimic germline cells. The meiotic programs of the polyploidal stem cells can get activated generating cleavage embryos, morulas which can get converted to tumour spheroids. The spheroids can get converted to blastocyst and post implantation embryos producing oncogenesis. They can also dissemble producing metastasis.

The Neanderthals ate a high protein high fat non-vegetarian diet by hunting and scavenging mammoths and other animals. This resulted in heavy load of tryptophan in the system producing tryptophanuria and tryptophanemia. The meat contains a high level tryptophan and haemoglobin which can induce the enzyme indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase which are both heme enzymes. The Neanderthals ate a low fibre diet resulting in decrease supply of short chain fatty acids especially butyrate from the gut. Butyrate can suppress indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase and a fibre deficient diet in Neanderthals can upregulate the activity of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase resulting in increased catabolism of tryptophan along the kynurenine pathway. Natural substances that are deficient in non-vegetarian diet like brassica alkaloids, curcumin, caffeine, tea and coca can inhibit indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase which becomes over active in Neanderthals producing tryptophan catabolism. The tryptophan is metabolised to formyl kynurenine, hydroxy kynurenine, kynurenic acid, 3-hydroxy anthranilic acid, quinolinic acid and NAD. Kynurenine can bind to AHR receptor producing immunomodulation and immunosuppression. It can produce immune tolerance in case of embyrogenesis, parthenogenesis, autoimmunity, cancer, lipopolysaccharide tolerance and chronic infection. The kynurenine can produce suppression of T cells and immunity leading to immunotolerance important in the above mentioned states. Thus kynurenine pathway flux can

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contribute to embryogenesis and parthenogenesis by producing immune tolerance. The tumours can escape immune destruction by suppression of NK cells and T cells. Thus tumour metabolism depends upon activation of the tryptophan catabolism along the kynurenine pathway. The kynurenine pathway is activated in lipopolysaccharide tolerance and chronic infections producing immunosuppression and immunotolerance. The archaeal endosymbiosis depends upon immunotolerance and immunosuppression by activating tryptophan catabolism along the kynurenine pathway. The tryptophan catabolism along the kynurenine pathway can also contribute to psychiatric disorders. Kynurenine blocks the NMDA receptor and alpha-7 nicotinic receptor. This results in down regulation of NMDA and cholinergic transmission. Kynurenine can also upregulate dopaminergic transmission. This results in schizophrenia and autism. The tryptophan catabolism along the kynurenine pathway blocks serotonin synthesis from tryptophan contributing to depressive and anxiety disorders. The tryptophan catabolism along the kynurenine pathway can result in quinolinic acid synthesis and immune activation resulting in autoimmunity, immune tolerance as well as immune activation. Kynurenine can produce immunosuppression and NMDA blockade while quinolinic acid can produce immune activation and NMDA excitotoxicity. The tryptophan catabolism along the kynurenine pathway can generate quinolinic acid important in neurodegeneration. The tryptophan flux along the kynurenine pathway can generate quinolinic acid which can produce low grade inflammation and insulin resistance causing metabolic syndrome. Thus the flux of tryptophan along the kynurenine pathway can produce autoimmune disease, neurodegeneration, schizophrenia, depression, autism, cancer and metabolic syndrome. The induction of heme enzyme indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can lead to heme depletion and induction of ALA synthase increasing porphyrin synthesis and producing porphyrias. The porphyrins can form self-replicating porphyrions. The porphyrions form a template for the formation of RNA viroid, DNA viroid and isoprenoid organism which can symbiose together to form an endosymbiotic archaea by abiogenesis. The induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase produces kynurenine which can suppress the immune system generating immunotolerance and archaeal endosymbiosis. Thus the tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase results in systemic civilizational disorders in Neanderthal population. The tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can result in immune tolerance and immunosuppression by kynurenine producing archaeal endosymbiosis and neanderthalisation of the species. The tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-

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dioxygenase can result in immunotolerance that can contribute to parthenogenetic embryogenesis or somatic pregnancy in multiple tissues in Neanderthals. The tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can produce an autistic schizophrenic tribe of Neanderthals with parthenogenesis and matriarchy.

The archaeal endosymbiosis produces neanderthalisation of the species. The archaea can activate the enzyme AMPK (Adenosine monophosphate kinase). The Neanderthals consumed a ketogenic non-vegetarian diet rich in fat and protein. The neanderthalic ketogenic diet can induce AMPK activation. The aquatic ape phenotype ate a lot of fish diet and fish fatty acids can produce AMPK activation. The aquatic ape phenotype also ate lots of tubers of backwater plants like lotus and water lilies containing high amount of glucomannan producing AMPK activation. The water plant tubers contain high amount of fibers whose digestion generates short chain fatty acids like acetate, butyrate producing AMPK activation. Amino acids and fatty acids can induce AMPK activation. AMPK activation can induce by low glucose and oxygen deprivation states of ice age. The Neanderthals had a cerebellar dominant phenotype with increased sympathetic activity producing the impulsive fear, flight, fight phenotype. The catecholamines- epinephrine and norepinephrine and dopamine can produce AMPK activation. The AMPK activation can result in simultaneous mtor activation resulting in dendritic spine pruning defects and an autistic Neanderthal brain. AMPK activation results in simultaneous activation of the HIF alpha and the induction of the Warburg phenotype and stem cell phenotype. AMPK activation can induce UCP proteins uncoupling oxidative phosphorylation leading to mitochondrial dysfunction. AMPK activation leads to increased catabolism and reduced anabolism. AMPK activation results in weight loss. AMPK activation can also lead to increased insulin signaling and IGF activity. The glycolysis, fatty acid oxidation and amino acid oxidation is increased. The protein synthesis is inhibited. The AMPK activation reduces fatty acid, cholesterol and triglyceride synthesis and increases their breakdown. The increased amino acid oxidation results in tryptophan catabolism producing increased amounts of kynurenines which are important in immune escape and parthenogenesis. The AMPK activation resulting in the stem cell phenotype results in generation of germ cells. The AMPK activation can activate the oocyte into development of parthenogenetic embryos. AMPK activation can increase intracellular calcium oscillations, increased intracellular ROS and AMP/ADP ratio resulting in the shock and wave activation of oocyte producing parthenogenesis. The AMPK activation can suppress the immune system producing immune escape and parthenogenetic embryogenesis.

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AMPK activation can increase the life span of the species and preservation of the Neanderthal phenotype. AMPK activation can produce cardiac protection and neuroprotection. AMPK activation is important in fertility, stem cell transformation and generation of germ cells. AMPK activation can uncouple oxidative phosphorylation as well as produce mitochondrial biogenesis. AMPK activation has a antioxidant effect by inducing NRF 2, superoxide dismutase and UCP. AMPK activation results in reduce generation of free radicals which act as messengers for endogenous retroviral replication. This produces a rigid genome, defective synaptic connectivity and cerebral cortical atrophy. AMPK activation induces glycogenolysis and inhibits glycogenesis. AMPK activation also increases glucose transport. The mitochondrial oxidative phosphorylation is blocked by AMPK activation by induction of UCP proteins. The glucose is converted to fructose by aldose reductase and sorbitol dehydrogenase induced by archaea and enters the fructolytic pathway. This results in fructosemia and increased synthesis of lipids and mucopolysaccharides resulting in a hibernation syndrome characteristic of Neanderthal metabolonomics. The AMPK activation also results in inhibition of protein synthesis and increasing autophagy/mitophagy and body renewal increasing the life span of the species. Thus the archaea induced AMPK activation leads to the generation of parthenogenetic species which is female and maternal dominant. AMPK activation occurs in hibernation and Neanderthals have a hibernatory syndrome. 5' AMP can activate AMPK producing hypometabolism and hibernation. The endosymbiotic archaea synthesizes digoxin by cholesterol catabolism. The endosymbiotic archaea uses cholesterol as an energy substrate. Digoxin can produce membrane sodium potassium ATPase inhibition and this can lead to membrane ATP synthesis. Sodium potassium ATPase functions as a ATP synthesizing enzyme in Neanderthals. Low level of EMF can also produce sodium potassium ATPase inhibition and membrane ATP synthesis. The ATP gets acted upon by ectoATPases which converts ATP to 5' AMP which can activate AMPK producing upregulation of catabolic pathways. Cholesterol catabolism can generate bile acids which can uncouple oxidative phosphorylation and regulate mitochondrial function leading to hibernatory metabolonomics. AMPK activation can lead to cholesterol catabolism and further digoxin synthesis. AMPK activation can increase cellular NAD levels producing activation of sirtuin-1. Sirtuin are NAD depended histone deacetylase. Sirtuin-1 activation can produce rejuvenation in the presence of caloric restriction occurring during hibernation. Sirtuin-1 mediates AMPK activation depended modulation of mitochondrial function. Sirtuin activation can induce hibernation and rejuvenation. Sirtuin modulate genes involved DNA repair, inflammation, fat synthesis and storage as well as glucose metabolism. Sirtuin can

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produce deacetylation and strengthen the carbon backbone of proteins increasing the longevity of proteins. AMPK activation, NAD accumulation, sirtuin activation and HIF alpha activation occur together. This can produce a hibernatory state and immune escape leading to parthenogenesis. The Neanderthals ate a high fat high protein ketogenic diet as well as diet rich in backwater tubers containing dietary fiber. Ketogenic diet, amino acids, caloric restriction, fatty acids and dietary fibre generated short chain fatty acids can induce AMPK activation, NAD accumulation, sirtuin activation and immunosuppression producing immune escape and parthenogenesis. AMPK activation and sirtuin activation can lead on to the Warburg phenotype, stem cell transformation, generation of germ cells and oocyte stimulation resulting in parthenogenesis.

Neanderthal evolution was determined by archaeal endosymbiosis. The human species evolved into homo neanderthalis by archaeal endosymbiosis. Archaeal endosymbiosis was mediated by the tryptophan catabolic kynurenine pathway. The kynurenines can produce immunosuppression and immune tolerance resulting in archaeal endosymbiosis. The kynurenine pathway results in blockade of the NMDA receptor, cholinergic nicotinic alpha-7 receptor, decrease production of serotonin and increase dopaminergic transmission. This produces an autistic, schizophrenic Neanderthal tribe with less of frontal executive function and more of cerebellar dominance affective impulsive type behaviour. The induction of indolamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase led to channelling of tryptophan catabolism along the kynurenine pathway. The Neanderthals ate a high protein non-vegetarian tryptophan diet leading to an induction of tryptophan catabolism. The Neanderthal diet was deficient in dietary fibre and fibre digestion generated short chain fatty acids especially butyrate resulting in increasing indolamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase activity and more of tryptophan catabolism. The kynurenine pathway results in generation of quinolinic acid which can produce chronic immune activation and insulin resistance. Quinolinic acid is also involved in neurodegeneration. The kynurenine induced immune cell as well as NK cell suppression can result in evolution of cancer. The archaeal endosymbiosis generated by kynurenine induced immunotolerance can lead on to cancer, autoimmune disease, metabolic syndrome, neurodegeneration, schizophrenia and autism by generation of archaeal cholesterol catabolite digoxin. Thus the higher load of tryptophan due to a meat diet and low fibre diet results in generation of kynurenine which has a ketamine-like action producing Neanderthal behaviour. The induction of heme enzymes indolamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase results in heme depletion, activation of

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ALA synthase and porphyrias. The porphyrins can self-organize to form porphyrions and can act as a template to generate isoprenoid organism, RNA viroids, DNA viroids which all symbiozed to form actinidic archaea. The porphyrions have a wave-particle existence and in the presence of membrane intercalated porphyrion mediated sodium potassium ATPase inhibition can result in a pumped phonon system and dipolar porphyrion mediated quantal perception. The porphyrion intercalated cell membrane and sodium potassium ATPase inhibition can result in increased intracellular calcium and decreased intracellular magnesium resulting in mitochondrial dysfunction, cell membrane dysfunction, golgi body related protein processing dysfunction, defect in DNA and RNA function and disordered cell function. This increased intracellular calcium and reduced magnesium due to sodium potassium ATPase inhibition can result in immune activation, glutamate excitotoxicity, oncogene activation and disease states. The immune tolerance produces cancer, stem cell transformation and parthenogenesis. The cancer stem cells can develop meiotic programs generating parthenogenetic embryos which can survive and grow in the presence of immune tolerance created by kynurenines. The multiple parthenogenic embryos can create multiple personalities leading to schizophrenia and autism, grow into cancer, its stem cell metabolism with increased glycolysis and mitochondrial dysfunction can produce metabolic syndrome, stem cell mediated increased glycolysis can lead to immune activation and the normal tissue dying at the expense of parthenogenic embryos can produce degeneration. The chronic inflammation induced by quinolinic acid and other tryptophan catabolites producing autoimmune disease and quinolinic acid related cell death and degeneration. The tryptophan catabolic pathway produces civilizational syndromes in Neanderthals leading to their extinction. The tryptophan loading in higher primates and homo sapiens due to increased meat eating carnivorous habits in Eurasian steppes resulted in kynurenine catabolite induced immunosuppression, immunotolerance, archaeal endosymbiosis and neoneanderthalisation. Thus tryptophan loading due to a high meat and low fibre diet mediated kynurenine generation and immunotolerance would have led to archaeal endosymbiosis and evolution of homo neanderthalis and homo neoneanderthalis. The Neanderthals due to archaeal endosymbiosis had stem cell transformation, activation of meiotic programs in the stem cells, generation of germ cells and parthenogenesis. This resulted in female dominance and matriarchal societies. The intraspecies hybridisation and intragenomic conflict would also have contributed to parthenogenesis and reptilian gene expression consequent to interspecies hybridisation and intragenomic conflict. The genes affected are PDH, BKCD, SLOS, porphyria, Hartnup's disease, decreased cholesterol synthesis, CoQ synthesis and vitamin D

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synthesis. The Hartnup's trait would have developed to counteract the tryptophan loading in Neanderthals consequent to a high meat diet. This produces what is called as increased tryptophan catabolism and kynurenine catabolites mediated oshtoran syndrome described initially in the peri-Caspian areas. Endemic oshtoran syndromes would have existed in the Neanderthal population producing refractory thought and mood disorders, movement disorders including chorea and tic as well as schizophrenia and autism. The generation of tic disorders as a part of epidemic or endemic oshtoran syndrome would have led to vocal tic led language generation. The human language including ancient ones like Akkadian and Sanskrit developed first in peri-Caspian areas. The endemic oshtoran syndromes can also result in altered fat metabolism fatty liver and cirrhosis. It can produce adrenal dysfunction and hyperactivity producing sympathetic overactivity and parasympathetic underactivity leading to hypertension, vascular disease, cancer and autoimmune disease. The incidence of lupus-like syndromes and multiple sclerosis is high in endemic oshtoran syndrome. The tryptophan catabolism in oshtoran syndrome can produce cognitive dysfunction like Alzheimer's disease, Parkinson's disease and cell death. Parthenogenesis can lead to autistic phenotype with cerebellar dominance and a cerebellar cognitive affective disorder. Parthenogenesis induced reptilian gene expression can produce porphyrias and porphyrin induced extrasensory perception. This produces a creative tribe with quantal perception.

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Archaeal endosymbiosis and neanderthalisation depended upon the kynurenine pathway mediated immunotolerance and immunoparalysis. The tryptophan catabolic pathway and kynurenine can have a ketamine-like effect due to NMDA blockade resulting in ecstasy, CCAS, cerebral cortical paralysis and extrasensory perception. The tryptophan catabolism is directed the kynurenine pathway resulting in depletion of melatonin and nocturnal activity and lack of sleep. The tryptophan catabolites kynurenine and kynurenic acid can produce decreased insulin synthesis, decreased insulin release, decreased insulin biological activity causing insulin resistance. Tryptophan catabolitic syndrome can result in sympathetic overactivity and a dysautonomic syndrome producing fear flight response and impulsivity. The induction of reptilian genes by intragenomic conflict and interspecies hybridisation can result in expression of the shikimate pathway producing alkaloidal neurotransmitter synthesis- LSD, nicotine, strychnine, mescaline producing shamanic states and extrasensory perception. The induction of IDO and heme depletion can result in porphyrias and porphyrion mediated extrasensory perception. The heme depletion can reduce the heme enzyme activities. The heme enzyme cytochrome C oxidase is inactivated resulting in mitochondrial

dysfunction. The heme enzymes catalase and glutathione peroxidase are inactivated producing free radical stress. The heme enzyme cytochrome P450 is inactivated producing defective bile acid synthesis due to cholesterol 7-alpha hydroxylase deficiency causing metabolic syndrome X due to bile acid deficiency. The heme enzyme cytochrome F450 deficiency produces defective aromatase and beta hydroxy steroid dehydrogenase producing reduced testosterone, estrogen and cortisol synthesis. This produces the asexual and alternate sexual Neanderthal state. The heme enzyme lanosterol 14-alpha demethylase is inactivated inhibiting cholesterol synthesis and cholesterol depletion syndrome. The heme enzyme retinoic acid hydroxylase and cholecalciferol hydroxylases are deficient producing lack of vitamin D and A, defective immunity and uncontrolled cell proliferation.

The initial event is an increased tryptophan catabolic pathway producing immunotolerance and immunoparalysis mediated by kynurenine. This produces endosymbiotic archaeal growth and neanderthalisation. This results in conversion of somatic cells to germ cells and activation of meiotic programs resulting in parthenogenesis. The homo neanderthalis reproduces by parthenogenesis. There is a malfunction in sexual reproduction resulting in a parthenogenetic species. Parthenogenesis is induced by actinidic archaea and RNA viroids. Climate change induced stress can produce parthenogenesis. The heme enzymes cytochrome P 450 dependent aromatase and beta hydroxy steroid dehydrogenase are defective resulting in lack of sex hormones producing asexuality and alternate sexuality. The heme enzymes NOS, CBS and HO1 are defective leading to lack of gasotransmitters NO, CO and H_2S resulting in dysautonomia and sexual dysfunction. The parthenogenesis results in formation of multiple embryos in tissues causing multiple personalities and schizophrenia and autism. Parthenogenesis also produces cancer and autoimmune disease. Parthenogenesis in the brain can result in death of normal tissue and neurodegeneration. The stem cell metabolonomics of parthenogenetic embryos with increased glycolysis and mitochondrial dysfunction results in metabolic syndrome. The heme depletion leads to porphyrias and porphyrions causing quantal perception. The tryptophan catabolic pathway related kynurenine can produce a ketamine syndrome akin to schizophrenia. Similar schizophrenic and autistic syndrome can occur in Neanderthals due to tryptophan alkaloids synthesized by reptilian gene activation- LSD and mescaline. This produces a shamanistic spiritual quantal perceptive society. The porphyrion induced quantal perception of low level EMF can result in cortical atrophy and CCAS and an impulsive state, aggressive state, violence, criminality, spirituality and terrorism. The Neoneanderthals form small colonies and tribal groups. The

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porphyrion mediated quantal perception results in formation of cohesive small groups with communal living creating an anarchic society. The anarchic society arises due to a cerebellar cognitive affective disorder and cortical atrophy consequent to quantal perception. This anarchic society is small and tribal, violent and aggressive, spiritual and transcendental. This results in loss of national identities and recession to primitive tribal identities. The civilizational national identities collapse and are replaced by small tribal identities causing permanent war, instability and crisis. The parthenogenetic reproduction in Neanderthals and Neoneanderthals as well as the lack of sex hormones related asexuality and alternate sexuality produces a matriarchal female dominant small social groups. This can happen in the setting neoneanderthalisation consequent to endosymbiotic archaeal growth. The neoneanderthalic matriarchal society is female dominant and the males are reduced to a marginal role in society creating complexes of hatred and vulnerabilities. This can be compared to the creation of a society female amazons and male eunuchs. The world tends to be transformed into an anarchic society of Amazonian women and male eunuchs. This represents the castrated male syndrome with deprivation of dignity, integrity, passion and pride. The Neanderthal communities functioned as anarchic small societies with communal living. The concept of altruistic, egoistic and obsessive love and nuclear family was absent in them. They lived as small groups of 15-20 with group consciousness. The porphyrion induced extrasensory quantal perception resulted in well-bonded anarchic communities with communal living and parenting of children. Sexual relationships became partnership between equals and functional. They were promiscuous, self-sufficient and were not into socially sanctioned relationships like marriage. The duty of the male eunuchoid was to the small community which is served relationships in the community depended on a common communal consciousness based on extrasensory quantal perception. The neanderthalic and neoneanderthalic communities were matriarchal and gender equal and did not have any hierarchal leadership. There were no kings or queens and it was a stateless society. It was a voluntary association and there was no written law or control except by consensus. This is represented by ancient Indian societies in the Buddhist period of Indian history described as Janapadams. These were small stateless societies ruled by equality and consensus. The ancient Harappan civilization was also structured as a stateless anarchic society. The same holds good for the ancient Celtic kingdoms in Wales, Scotland, Basque, Catalonia and Brittany. The concept of anarchic societies is exemplified in the Mandalas in Southeast Asia comprising modern Indonesia, Vietnam, Laos, Cambodia, Myanmar and Thailand. These civilizations were extensions of the South Indian Dravidian civilization which derived from

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the Harappan civilization. In modern times the anarchic societies were revived in the form of modern Grama Swaraj of Gandhi whose philosophy was basically anarchic. Gandhi was from the area of India where the Harappan civilization thrived in prehistoric times. The same anarchic societies can be seen in Jewish Kibbutz. The Jews, Celts, Dravidians all had a neanderthalic origin. This formed the basis primitive, anarchic Neanderthal communities. The global warming related endosymbiotic archaeal growth results in neoneanderthalisation. The actinidic archaea mediated quantal perception of low level EMF results in cortical atrophy and cerebellar dominance resulting in a cerebellar cognitive affective disorder. The archaea mediated quantal perception by porphyrions results in small bonded Neoneanderthal communities with anarchic forms of organisation. The human civilization owing to global warming and neanderthalisation of the brain regresses to form small tribal anarchic communities in perpetual warfare resulting in the end of nation states. The neoneanderthalic world of anarchy has set in. The matriarchal societies with parthenogenetic female result in the syndrome of castrated male eunuchs and gender equal societies. Anarchy becomes the norm of political life in the world with its attendant catastrophic destructions. The male eunuch syndrome coupled with cerebellar cognitive affective disorder in an anarchic world with tribal identities can produce terrorism, criminality, creativity, aggression, violence, lack of empathy and an autistic tribe. The parthenogenetic Neoneanderthals will eventually become extinct due to lack of gene diversity in the population.

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Climate change and exposure to low level internet EMF fields can induce HO1 activity and increased porphyrin synthesis. The porphyrins can form porphyrions which act as a template for the formation of RNA viroids, DNA viroids and isoprenoids by abiogenesis. They are symbiose to form actinidic archaea and RNA viroids. This results in endosymbiotic archaeal mediated stem cell transformation. The endosymbiotic archaea can induce toll receptor activation and activate HIF alpha resulting in stem cell metabolonomics with increased glycolysis and mitochondrial dysfunction. The endosymbiotic archaea can induce aldose reductase and fructose metabolism producing frucotsemia, lipid synthesis, mucopolysaccharidosis, porphyrias and hibernation/zombie syndromes. The increased glycolysis and Warburg phenotype can activate the immune system. The stem cells meiotic programs get activated and results in the formation of germ cells and parthenogenesis. Thus climate change and internet exposure results in a reproductive change to predominant asexual reproduction and parthenogenesis. This results in an asexual male eunuch phenotype. This results in gender equality and female dominance. The male population becomes dispossessed

and is peripheral to the functions of society. This creates a society of male eunuchs and matriarchs. The society regresses to the matriarchal regime with widespread social consequences. The porphyrions and actinidic magnetotactic archaea can perceive low level EMF fields producing frontal cortical atrophy and cerebellar dominance. This produces the cerebellar cognitive affective disorder on an epidemic scale. The cerebellum is the site of impulsive behaviour, aggression, criminality, extrasensory perception, spiritual phenomena and dreams as well as trance. This results in an impulsive society without any logic or reason producing lawlessness and anarchy. This produces an anarchic world of Neoneanderthals with small social tribal groups and fall of organized civil society and nation states. The consequence of these are widespread lawlessness, wars, criminality, terrorism, sexual promisquity, demise of the nuclear family, alternate sexuality, communal living and breakdown of social structures of the homo sapien society. The anarchic eunuchoid world of Neoneanderthals opens up. Thus the climate change and internet produces a sexual change, anarchic social change, and reproductive change. The Neanderthals live in a dream world of imagination and paranormal phenomena modulated by cerebellar hypertrophy and function. This produces a spiritual world of trances and religiosity. The Neanderthal brain activates the default network in the frontoparietal lobe producing day-dreaming, creative visualization, fantasy phenomena, depersonalisation and altered consciousness. The increased tryptophan catabolism produces kynurenine which blocks the NMDA receptor producing a ketamine or phencyclidine schizophrenic psychosis on an epidemic scale. The increased kynurenine can also block the alpha 7 nicotinic acetyl choline receptor, decreased serotoninergic activity and activates dopaminergic receptor. The tryptophan catabolic pathway also produces hallucinogenic alkaloids like strychnine, mescaline and LSD. This contributes to day-dreaming shamanic states in Neoneanderthals. This contributes to creativity, autism, schizophrenia, lack of social contacts, small tribal populations and a dream world in Neanderthal society. The increased porphyrions produces quantal perception and a dream world. The Neanderthals form small social groups and lack social contacts with out of kin population producing small autistic tribes. The Neoneanderthals and homo sapiens can be differentiated by the following phenomena of unconscious versus conscious, religion versus science, magic versus logic, dream versus waking and psychic versus material. The Neoneanderthals have great paranormal ability and the society was more religious and spiritual. They created cities of dreams which were classically psychopathic, magical and dream-like. The Neanderthal culture of magic, culture and spirit was different from that of homo sapiens. The myths, folklores and religiosity are derived from the Neanderthals. The

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worship of serpents as symbols of God and use of crystals and minerals as exemplified by Siddha forms of medicine are neanderthalic. They painted the skin and face creating extensive tattoos, wore ornaments and were extraordinarily ceremonial and ritualistic. They created dance as form of worship as comparable with the concept of Shiva as a celestial dancer. The neanderthalic tribes were nocturnal and were aware of the star constellations of big bear, little bear and draco. The Neanderthals were nocturnal tribe because of photosensitivity due to porphyrias which made them favour the night time to the day. The neanderthalic Gods were from the outer cosmos and the civilization was seeded by intergalactic contacts mediated by cometary and asteroidal impacts. The comets and asteroids carried magnetotactic actinidic archaea which formed colonies transforming to homo neanderthalis. The Neanderthals were religious and have funeral ceremonies and believed in after life. The Dravidian civilization, Uluzzian and Chatelperonean civilization as well as the Basque and Catalan were neanderthalic. They were a civilization of dreams, rituals, dances, religiosity and trances owing to an epidemic CCAS. The Neanderthals were nocturnal tribe who worshipped the moon goddess were matriarchal food gathering and women governed society. The homo sapiens were the sun worshipping patriarchal hunter warriors and male governed society. The females were mere adjuncts. The Neanderthal society was religious, ritualistic, symbolic with a cosmological approach to the world. It was a society of creative imagination. The society was predominantly parthenogenetic and asexual. The tantric form of spirituality and the sense of spiritual awakening indicated by the Kundalini showed the asexual nature and eunuchoid characteristic of the Neanderthal tribe. The cerebellum is the site of creative visualization, paranormal and dreams. The Neanderthal brain was cerebellar dominant creating trance-like states, day-dreaming, telepathy, psychic healing, poltergeist phenomena and religiosity. It was a high civilization of dreams mediated by the cerebellum. The cerebellum produces an ataxic motor syndrome as well as dysmetria of thought. The dysmetria of thought results in an autistic and schizophrenic tribe of Neanderthals and Neoneanderthals produced by climate change and internet exposure. The cerebellum is the site of common embryonal tumours and archaea induced parthenogenesis is higher in the cerebellum producing cerebellar hypertrophy, cerebellar dominance and cerebellar dysfunction. The archaea induced parthenogenesis produces a cerebellar dominance Neoneanderthal brain and the dream civilization of Neanderthals.

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The homo sapiens mind can be characterized by the ego and the homo neanderthalis by id. Homo sapien qualities are sun, fascism, psychosis, logic, science, awake, adult, day,

God, male and yang, versus the homo neanderthalis qualities are communism, moon, neurosis, intuition, religion, day-dreaming, child, night, devil, female and ying. The Cro-Magnons were hunters, patriarchal and sun worshipers. The homo neanderthalis were moon worshipers, patriarchal and food gatherers. The homo neanderthalis inhabited Europe and Middle-East. Gooch postulated the double helical concept of the mind as opposed to hemispheric dominance. The double helical mind of Gooch includes the cerebellum which is concerned with dreaming and creativity and the cerebrum concerned with logic. His concept of the sacred life of humans, the double helix of the mind, the cities of dreams, the creations of inner space and the divided self are described extensively in his work. The cerebellum is the site of paranormal and supernatural phenomena and gives rise to creations from the inner space. These are the creations from the inner space mediated by the cerebellum constituted the basis of vampires, troglodytes, demons and asuras. The cerebral cortex is the site of ego and the cerebellum the site of id. The cerebellum becomes dominant owing to archaea and viroid induced embryonal parthenogenesis. The interbreeding of Cro-Magnon with Neanderthals resulted in a burst of spirituality, artistry and creativity. The human behaviour can be explained by the double helical concept of mind. The socialists are neanderthalic and the Cro-Magnon conservatives. The Neanderthals were red-haired with slanting forehead and were worshippers of the moon. Moon worshipping was common in the Fertile Crescent which included Turkey, Egypt, Harappa, Sumeria and Arabia. The basis of these civilizations was lunar. The Neanderthal societies were matriarchal, completely promiscuous and sex driven and lead by women. They can be compared with the behaviour of bonobo primates. The Neanderthals were short-statured, left-handed and near-sighted. The Cro-Magnons were taller, long-sighted and right-handed. The Neanderthals had a communal living while the Cro-Magnons were monogamous and pair-bonding. The Neanderthals have a larger cerebellum, pyknic body type, non-athletic body type, left-handedness, less of male pattern baldness, prominent eye brows, recessive chins, were neurotic, and is less of psychosis, more hypnotisable and better night vision. The neanderthalic phenotype can be seen in drop-outs, addicts, alcoholics, unemployed and insomniacs. They lived in a world of day-dreaming and increased sexual activity as well as alternate sexuality. The Neanderthals were religiously organized were seen in south Europe, east Europe among the untouchables while the Cro-Magnons had large civil society and were seen in north Europe, west Europe, Brahmin communities and were taller. The political ideas of the French revolution, the Russian revolution and the Taliban were neanderthalic while that of the Nazis and KKK were Cro-Magnon. The Neanderthals were basically a day-dreaming, lunar society and were

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represented by the Celts, the witches, the Kabalist, the Rosicrucian and Judaist. The Nazi hatred of Jews and the western hatred of Islam are based on their neanderthalic origin. The homo sapiens on the other hand were worshippers of the sun. The Neanderthals were left-handed and left-leaning while the Cro-Magnons were right-handed and right-leaning. The Neanderthal societies are represented by Nairs, Nagas, Sakas, Scythians, Saxons, Celts, Berbers, Sumerians, Dravidians, Harappans, Etruscans and Egyptians. The moon was worshiped in Egypt, Babylon, India, Sumeria, Assyria, Akkadians and Chaldians. The moon God was called as sin and Thoth. They are the oldest human deities and are represented by Shiva in India. The Egyptian God Isis, the Celtic God Morgana, the Greek God Artemis, Aphrodite and Selene were representative of the lunar God. All the pagan festivals depend upon the lunar cycles. The Moon God was worshipped in the Kabbala, the Talmuds, the Ur of Chaldees, Harappa and in all of the Fertile Crescent. The Harappan civilization had Shiva with his crescent symbol representing lunar worship. Soma was the presiding deity of Rig Vedic ceremonies and is represented by moon. The soma is actually a drink of milk, honey, cannabis and other plant extracts which produced a hallucinatory state. The Harappan culture was neanderthalic and lunar centric as also the succeeding Shaivite sects of Hinduism like Aghoras and Nagas. The term for mental illness- lunatic came from lunar worship. The Cro-Magnon civilization was the opposite with sun being the dominant and logic being the culture of the society. The wars of history and hatred of civilizations like Jews, Islam and Hindus were based on neanderthalic origin and their lunar worship.

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The Neanderthals evolved by seeding of cometary reptilian genes from outer space. The intergalactic porphyrions, RNA viroids, DNA viroids and template replicating magnetotactic archaea are the basis of cometary genes and seeding of life on earth. The template replication and parthenogenesis are related to evolution of Neanderthals. The intragenomic conflict and interspecies hybridisation produces expression of reptilian genes in human- PDH deficiency, mitochondrial dysfunction, SLOS and porphyria. The parthenogenesis and matriarchy are related as also SLOS, asexuality and alternate sexuality. This produces on-hierarchal anarchic societies. The equality and gender sensitivity are related to the serpent cult of Khylst and Capracoites- Nagas and Asuras- Dravidians and Sumerians- Punts and Egyptians. The mother Goddess, the serpent people and Neanderthals are synonymous. The Dravidians, Celts, Egyptians, Jews, Berbers, Sakas, Nagas, Nairs, Asuras and Neanderthals were parthenogenetic. They consumed a high fat high protein diet- milk and honey, and had persisting adult lactose tolerance. This contributed to the consumption of

a ketogenic diet, stem cell metabolonomics and parthenogenesis. Global warming and climate change can lead to archaeal endosymbiosis and neanderthalisation of the species. This leads to interspecies hybridisation and intragenomic conflict contributing to parthenogenesis. Archaea and RNA viroids can induce parthenogenesis. Parthenogenesis can lead to matriarchy and female dominance. Parthenogenesis can produce expression of reptilian genes, porphyrias, extrasensory perception and autistic phenotype. This results in a creative, spiritual and matriarchal population. This has a similarity to an ant and bee colony. They behave like parthenogenetic Neanderthal societies. The reptilian gene expression produces the SLOS phenotype, low cholesterol and lack of sex hormones leading to asexuality and alternate sexuality.

Parthenogenesis can lead to human disease. Parthenogenetic Somatic pregnancy can lead to cancer. Parthenogenetic embryos behave like autoantigens causing autoimmunity and autoimmune disease. The parthenogenesis and stem cell glycolysis can lead to lymphocyte activation and autoimmune disease. Parthenogenesis in brain can lead to multiple personalities causing schizophrenia and autism. Parthenogenetic embryos in neural tissue can lead to neurodegeneration by starving the host cells. Parthenogenesis leads on to Warburg phenotype. The Warburg phenotype contributes to anaerobic glycolysis, mitochondrial dysfunction and metabolic syndrome. Parthenogenesis can lead to sexual evolution and alternate sexuality. Parthenogenesis will lead to a lack of demand for sexual reproduction. The expression of reptilian genes and SLOS phenotype produces cholesterol depletion and sex hormone deficiency. This produces an asexual phenotype. Extremes of climate change can produce archaeal symbiosis and parthenogenesis. This results in interspecies hybridisation and intragenomic conflict. This leads to a matrilineal society and female dominance. The status of males is low in matrilineal societies. The Neanderthal societies were female dominant. The interspecies hybridisation and intragenomic conflict leads to archaea and RNA viroid induced parthenogenesis. The reptilian gene expression produces SLOS phenotype, low cholesterol, low sex hormones and asexuality. This results in alternate sexuality, matrilineal societies, female dominance and DEVI syndrome. This contributes to autistic phenotype and neanderthalic autistic tribes.

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The climate change induced parthenogenesis is due to mediation by archaea and RNA viroid. This produces matrilineal society, matriarchy and asexual societies. The reptilian gene expression and porphyrias leads to generation of porphyrions and extrasensory perception. Parthenogenesis and mother Goddess cult are related. The porphyrions produces extrasensory

quantal perception and a quantal civilization. This leads to creativity and autism. The return of Nagas and Asuras due to climate change mediated archaeal endosymbiosis and parthenogenesis is related. Archaea and viroid can induce parthenogenesis. Archaea and RNA viroid induced mitochondrial dysfunction and upregulated glycolysis resulting in stem cell transformation of somatic cells. Stem cell metabolonomics include anaerobic glycolysis, PDH dysfunction, CoQ 2 mutation and mitochondrial dysfunction. The somatic cells which are stem cell transform in the setting of immune activation and cytokine secretion can get converted to germinal cells – sperm and ova. This can result in fertilisation and parthenogenesis. The porphyrions result from intragenomic conflict/interspecies hybridisation and reptilian gene expression. The archaea can induce the HIF alpha and toll receptor activation resulting in glycolysis, mitochondrial dysfunction and GABA shunt. This also produces porphyrin synthesis and porphyrions. Porphyrins can produce extrasensory perception/quantal perception. Porphyrins can result in quantal perception and a quantal civilization existing in multiverse universes. The actinidic archaea and porphyrions have magnetotactic function resulting in mirror neuron function. This results in an autistic tribe. The cerebral cortex becomes atrophic and the cerebellar cortex dominant producing a cerebellar cognitive affective disorder. Interspecies hybridisation and intragenomic conflict results in archaeal symbiosis and parthenogenesis. There is intragenomic conflict and interspecies hybridisation producing this phenomenon. This results in reptilian gene expression and the shikimic acid pathway activation. This produces increased dopamine synthesis. Hyperdopaminergic transmission can produce endemic la tourette disease with motor and vocal tics. The hissing like vocal tics led to the evolution of language.

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The Neanderthals consume high fat high protein, ketogenic diet. This resulted in hibernation, fructolysis and fructosemia, lipogenesis and fat deposition, mucopolysaccharide accumulation, parthenogenesis and stem cell metabolism, glycolysis and mitochondrial dysfunction. High fat high protein diet can lead to decreased SCFA, modulated histone acetylation, HERV expression and genomic modulation. Low levels of short chain fatty acids including butyrate consequent to a low fibre diet produces decreased HDAC is related to HERV expression. Reptilian gene expression can lead to homo cystinurias and genomic expression modulation by demethylation. Neanderthalisation of the brain produces extrasensory perception, cortical atrophy, cerebellar dominance and cerebellar cognitive affective disorder (CCAS). The Neanderthal quotient is related to neuroticism, social fear, social avoidance, depression, bipolar disorders and autism. The Neanderthal quotient is

related to fear of strangers, aggressive behaviour and social limitation. The NQ is also related to sexual promiscuity, emotional stoicism and fear in social situation. The NQ is also related to anxiety, xenophobia, lack of empathy, compassion. The NQ quotient is related to lack of working memory and consciousness and develop long-term memory. The NQ is related to risky physical, social and sexual behaviour. The NQ is related to small groups of 8-10 numbers. The Neanderthals groups were small. The homo sapien groups numbered 150 and were large. The NQ form alliances within kin groups and family ties were strong. The homo sapiens could form alliances with non-kin groups and large civilizations developed.

The autistic and schizophrenic phenotype has been attributed as to refrigerated mother of the Neanderthal matriarchal phenotype by Leo Kanner and Bruno Bettelheim. The homo neanderthalis is female dominant matriarchal society. The Neanderthal brain contributes to the cerebellar cognitive affective disorder with a high incidence of autism and schizophrenia. This leads to parental coldness, obsessiveness, social isolation and ritualism. Autistic and schizophrenic neanderthalic mothers give rise to autistic and schizophrenic children. Autism and schizophrenia are disorders of socialization. The mothers of autistic and schizophrenic children are socially withdrawn and dominate their children leading on to what is called as Mahler syndrome or symbiotic psychotic syndrome. This is a syndrome of dedifferentiation and deanimation with the child perceiving itself as an extension of the mother. The Neanderthals have magnetotactic archaea and porphyrion induced quantal perception and the dominant mother is undifferentiated psychologically from the Neanderthal children. The Neanderthal children of dominant mothers become socially withdrawn and isolated leading to paleologic thinking process contributing to autism and schizophrenia. The Neanderthal brain evolved due to archaeal symbiosis and archaeal cholesterol catabolism leads to decreased levels of cholesterol and bile acids in Neanderthals. The archaea use cholesterol as a energy substrate and have cholesterol oxidase activity. Bile acids can bind to olfactory receptors and can modulate the limbic lobe and human behaviour. Bile acids are involved in social bonding and bile acid deficiency in Neanderthals contributes to the formation of smaller societies and tight family groups. The bile acid deficiency contributes to decreased social bonding in Neanderthals and the genesis of autism and schizophrenia. The family relationships in the matriarchal society are tight creating the empty fortress syndrome.

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The porphyrions have a wave-particle existence and can exist in the intergalactic space. They form a template for the formation of abiogenetic isoprenoid organism, DNA viroids, RNA viroids, double helical templates resembling reptiles. The formation of universe

depends on abiogenetic magnetotactic archaea related intergalactic magnetic field. The cometary genes derived from intergalactic archaea and viroids by asteroidal impact seeds life in earth. The intergalactic archaea and cometary genes produced the evolution of life on earth. The actinidic archaeal colonies became multicellular and evolved into Neanderthals. The parthenogenetic embryos of Neanderthals have template mediated replication.

The interspecies hybridisation and intragenomic conflict resulted in archaea and viroid induced parthenogenesis. This produced matriarchy and female dominance. The reptilian gene expression and SLOS phenotype resulted in low cholesterol, sex hormones and asexuality. This produces a culture of sexual equality and alternate sexuality. The porphyrion induced ESP can lead to unified consciousness, equality and oneness. This produces a anarchic and non-hierarchal society. The neanderthalisation of the brain can lead to a cerebellar cognitive affective disorder. The CCAS leads to evolution of evilness and spirituality. The CCAS also results in illogical impulsive acts contributing to terrorism. The extrasensory perception and ataxia due to cerebellar dysfunction can lead to creativity, dance, painting and art.

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The interspecies hybridisation and intragenomic conflict can lead to parthenogenesis-archaea and viroid induced. The reptilian gene expression and stem cell metabolism leads to mitochondrial dysfunction, PDH deficiency, glycolysis, fructolysis, fructosemia, lipogenesis, hibernation syndrome, mucopolysaccharidosis and zombie syndrome. This produces metabolic syndrome with obesity and diabetes mellitus mimicking reptilian habits. The interspecies hybridisation and intragenomic conflict leads to climate change, archaea and viroid induced parthenogenesis. The reptilian gene expression produces HIF alpha and increased glycolysis immune activation. The somatic parthenogenesis is related to autoimmunity. Reptilian gene expression and digoxin synthesis leads to immune activation. The reptilian genes and HLA expression are related. The HLA genes are derived from Neanderthals. The archaea and RNA viroid induced toll receptor activation can lead to immune activation. This produces autoimmune disease. The interspecies hybridisation and intragenomic conflict can result in parthenogenesis, archaea and RNA viroid induced. The reptilian gene expression leads to porphyrias. The porphyrions are related to quantal perception. The Neanderthals are retroviral resistant with less of HERV expression leading to cortical atrophy and cerebellar dominance contributing to CCAS. The porphyrion induced quantal perception can lead to a quantal civilization. This results from neanderthalisation of the brain, decreased cerebral cortex. The interspecies hybridisation and intragenomic conflict

as said before can lead to parthenogenesis- archaea and viroid induced. The reptilian gene expression leads to porphyria and porphyrion generation producing ESP and quantal perception. The mirror neurons function is related to archaeal porphyrions. This leads to quantal perception and civilization as well as biological reincarnation.

Table 1. Parthenogenetic history in female pregnancies

Group	Percentage
Matrilineal Nair	11
Non-matrilineal	2

Table 2. Neanderthal quotient

Group	NQ
Matrilineal Nair	High
Non-matrilineal	Low

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CHAPTER 46

THE HIRANYAGARBHA- ISOPRENOID- PORPHYRION COMPLEX DROPLET ORGANISM- PARTHENOGENESIS AND REPTILIAN GENE EXPRESSION - EVOLUTION OF UNIVERSE, MIND AND HOMO NEANDERTHALIS

Somatic parthenogenesis occurs due to transformation of the somatic cell to pluripotent stem cell which can develop to parthenogenetic embryos. This results from hybridisation between two different species homo neanderthalis and homo sapiens. This interspecies hybridisation produces intragenomic conflict and parthenogenesis. Parthenogenesis can be induced by stress of climate change and by endosymbiotic archaea and RNA viroids. The intragenomic conflict consequent to interspecies hybridisation results in upregulation of the tryptophan catabolic pathways produces increased amounts of kynurenine, immunosuppression and immune escape of the parthenogenetic embryos. The interspecies hybridisation and intragenomic conflict results in reptilian gene expression and digoxin synthesis. The digoxin produced by endosymbiotic archaea results in upregulated tryptophan transport and catabolism over tyrosine. The increased kynurenine catabolism in Neanderthals results in immune escape and endosymbiotic archaeal growth. The endosymbiotic archaeal growth results in neanderthalisation of the species. The neanderthalisation of the species and interspecies hybridisation and intragenomic conflict results in porphyrias and increased porphyrion mediated low level EMF perception, cortical atrophy and cerebellar dominance. This produces a cerebellar cognitive affective disorder with autistic features, impulsivity, aggressiveness, power lust, increased sexual desire, alternate sexuality, criminality, cannibalistic features and anarchic social mores. The Neanderthal species owing to endosymbiotic archaeal growth and stem cell transformation had an asexual mode of reproduction with parthenogenesis. This results in female dominance, Amazonian syndrome, a culture of male eunuchs and matriarchy. The interspecies hybridisation and intragenomic conflict results in a SLOS phenotype with decreased cholesterol synthesis. This produces decreased sex hormone synthesis resulting in asexuality and alternate sexuality. The Neanderthals were matriarchal and worship the mother Goddess. The reptilian gene expression and SLOS phenotype results in generation of serpentine features. The genes for the primitive reptilian brain complex get expressed with aggression, violence, impulsivity, cannibalism, anarchy, immorality, lust for power and dominance. The SLOS phenotype results in development of primitive features like the development of tail or cauda, cleft chin, prominent thin long teeth and canines, freckles, scales in the skin and

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syndactly or webbing. The digoxin synthesis and decreased tyrosine transport results in reduced dopamine and melanin synthesis contributing to a tribe of anarchic white Gods. The reptilian gene expression and digoxin synthesis leads to sympathetic hyperactivity and ability to regulate the body temperature in alignment with environmental temperature producing cold bloodedness. The archaea induced fructolysis and fructosemia owing to induction of aldose reductase results in increased lipid and mucopolysaccharide synthesis and hibernation syndrome contributing to obesity and increased subcutaneous fat like reptiles. The evolution of cervical rib, the widow's peak in the eye brows and prominent second toe in the feet is due to increase of recessive traits consequent to inbreeding. The inbreeding results from the autistic phenotype and reduced social contact and social withdrawal. This autistic phenotype with the inbreeding and parthenogenesis leads to decreased genetic diversity and extinction of Neanderthals. The Neanderthals have increased subcutaneous fat, scaly skin which is partly due to albinism and UV exposure as well as due to cholesterol synthetic defect, increased salt secreting eccrine sweat glands and dominant tryptophan pathway and serotonin synthesis producing pineal gland or third eye. The increased tryptophan catabolism produces an epidemic oshtoran syndrome. The neanderthalisation produces an epidemic anarchic syndrome. The neanderthalisation also produces the syndrome of male eunuch and matrilineality. The Neanderthals were mostly parthenogenetic. The cerebellar cognitive affective disorder and actinidic archaeal magnetite and porphyrion induced quantal perception resulted in equality and universality. The primitive Neanderthal tribes are represented by the Saxons, Sakas, Basque, Etruscans, Dravidian races, the Celts and Berbers. The most dominant Neanderthal tribe is the Anglo-Saxons which created an equal society with a universal culture which is American, a universal language which is English, an universal monetary system represented by the dollar and the unification of all ethnicity in the American dream of tolerance and inclusiveness. The Neanderthals had serpentine features and Neanderthal cultures all over the world is represented by serpent worships as seen in Sumeria, the Dravidians of South India, Thoth of Egypt and in Mexico. The Naga tribes and Naga lore of South India represents the Neanderthal culture. The modern version of serpent worship is seen in the symbol of medical profession, the representation of the dollar and in free masonry. Free masonry of the Anglo-Saxons incorporates all religions and is the first universal religion and is neanderthalic. The neanderthalic populations were represented by particular blood groups, the universal donor O Rh –ve and AB Rh –ve, the universal receiver.

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The aquatic ape evolved from bonobo monkeys into homo neanderthalis in the brackish back waters of the peninsular India. The Neanderthals evolved by archaeal endosymbiosis. The archaea can oxidize cholesterol and ammonia for its energetics. The archaea evolved in hydrothermal vents in the ocean and ammonia was formed from nitrogen with iron sulphide as catalyst. Liquid ammonia can replace water as the solvent of life. Amidation can generate amides which can form polypeptides. Liquid ammonia can replace water in DNA and RNA. The primitive archaea obtained energy by ammonia oxidation. The origin of life in other planets and galaxies would have also used ammonia as a solvent. The initial primitive organism would have been an isoprenoid organism. Acetyl CoA can form on actinidic surfaces by abiogenetic mechanisms and generate isoprenoidal compounds like cholesterol and ubiquinone. Cholesterol oxidation using actinide catalyst can generate pyruvate consequent to ring oxidation. The pyruvate by transamination can generate glutamate which can be dehydrogenated to produce ammonia. Ammonia oxidation can subserve archaeal energetics. Ammonia can combine with carbon dioxide to generate urea which serves as a storage form of ammonia. Urea synthesis has been demonstrated in the Neanderthal brain and to some extent in homo sapien brain and is related to neurodegenerative disorders. The saltiness of blood points to an origin of life in water especially brackish water of backwaters. The brackish waters of lakes communicating with sea can generate organic molecules. The lakes adjacent to volcanoes can generate wet-dry cycles which can lead to abiogenesis. Brackish lakes adjacent to volcanoes can be seen in the ancient Lemurian continent in the Indian ocean of which peninsular India is a part of. The most primitive protocell would have been a droplet capable of division and replication. This forms the basis of the membrane first theory of origin of life. Lipid droplets formed of isoprenoids would have been the primitive protocell or isoprenoid organism. The incorporation of ubiquinone would have permitted a primitive electron transport chain and ATP synthesis. Lipid droplets are primitive cellular organelle seen in human cells. Lipid droplets are composed of a core of cholesterol and triacylglycerol and surrounded by a phospholipid monolayer. The different phospholipids in the lipid droplet are phosphatidyl choline, phosphatidyl ethanolamine and phosphatidyl inositol. The surface of the lipid droplet is decorated with proteins regulating lipid metabolism. Lipid droplet proteins are called perilipin 1-5. Proteins like caveolins and ancient ubiquitous protein 1 AUP 1 are associated with lipid droplets. The lipid droplet serves as a loci for the formation of a new droplet and can multiply by fission. Thus lipid droplet organelle is capable of self-replication. Cell arises as a symbiotic system with the mitochondria being a rickettsia, the cytoskeleton

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being a spirochaete, the cell envelope an archaea, the peroxisome an acinetobacter aceti and the nucleus a pox virus. The isoprenoid organism would have been the original primitive protoarchaea. The cholesterol would have been oxidized to produce pyruvate and ammonia. Ammonia oxidation would have subserved the lipid droplet archaea energetics. The ubiquinone would have served the purpose of a primitive electron transport chain.

The lipid droplet organelle can interact with lysosomes, mitochondria, nucleus and endoplasmic reticulum. The lipid droplet is formed of neutral lipids, triglycerides and steryl esters in the endoplasmic reticulum. The lipid droplet is a cell organelle. The lipid droplets also contain proteins and are storage vesicles preventing them from degradation. The lipid droplets can interact with porphyrions as demonstrated by farnesylation of heme. The porphyrion can get incorporated into the lipid droplet by isoprenylation. The porphyrion can have an electron transport chain function. The porphyrion can serve as a template for the formation of RNA and DNA. Thus lipid droplet porphyrion complexes would have served as an efficient protocell which evolved into eukaryotes, prokaryotes and archaea. The lipid droplets are taken up by bacteria like Chlamydia forming bacterial inclusions. The lipid droplet porphyrion complexes can also lead onto evolution of RNA and DNA viruses. The lipid droplets serve as a cell organelle for viral replication as demonstrated by HCV virus. The lipid droplet organelle serves as a platform for virion assembly of several viruses including HCV virus and dengue virus. The lipid droplet would have been the initial primitive lipid droplet archaea which after complexion with porphyrions would have generated RNA and DNA sequences as well as polypeptides forming more complex archaea. The lipid droplet porphyrion complexes would serve the purpose of abiogenetic archaeal replication with porphyrions serving as template. The lipid droplet porphyrion complexes serve the purpose of generating new RNA and DNA viruses which can get integrated into human genome or stored in lipid droplet organelle. The lipid droplet organelle serves the purpose of viral replication and spread by acting as a platform for this purpose. Lipid droplets are involved in the assembly of viral capsids. The lipid droplet can also serve as a platform for assembly of archaea and bacteria like chalamydia. The lipid droplet can interact with the mitochondria producing induction of uncoupling proteins (UCP) and uncoupling of the electron transport chain. Fatty acids can stimulate UCP proteins. This has been demonstrated in the brown fat mitochondria. The lipid droplet contains fatty acids, ubiquinone which can uncouple oxidative phosphorylation and modulate mitochondrial function. The lipid droplet induction of UCP proteins inhibit mitochondrial oxidative phosphorylation and activate

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glycolysis producing the Warburg phenotype. The lipid droplet gets associated with mitochondria and protects it from autophagy and mitophagy. Lipid droplets protect the mitochondria from damage by aggregating around them. There is an association between lipid droplet and mitochondria and the junction between lipid droplet and mitochondria is important for beta oxidation of fatty acids. The lipid droplet also is associated with the peroxisome modulating cholesterol and fatty acid synthesis. The lipid droplet activation of AMPK inhibits cholesterol and fatty acid synthesis. Lipid droplets contain diacyl glycerol (DAG), fatty acyl CoA and ceramide. They can produce insulin resistance. Lipid droplets are associated with fatty acyl CoA synthase, stearyl CoA desaturase and SREBP. Lipid droplets are dominant in stem cells, cancer cells and germ cells and induce their formation. Lipid droplets are seen in cancer cells and lead to refractory cancers as well as chemotherapy resistance. The lipid droplets are associated with histone proteins. Histone proteins when combine with DNA makes it toxic. The lipid droplets store the histone proteins and release them when required for chromatin formation. The lipid droplets are thus involved in histone acetylation and deacetylation by HDAC and HAT enzymes. Lipid droplets thus regulate gene expression. Lipid droplets are seen in associated with nucleus and nucleolus. Lipid droplets are seen as a platform for protein binding and degradation. Lipid droplets are involved in membrane trafficking, vesicular docking, endocytosis and exocytosis. The lipid droplets are associated with endoplasmic reticulum. There are bridges between the endoplasmic reticulum and lipid droplet which allows transport of proteins between these two organelle. They are involved in response to ER stress and ER assisted degradation of proteins. ER associated degradation of proteins depends on lipid droplets especially for the cholesterol synthesizing proteins HMG CoA reductase and apo B 100. ER stress results in the misfolded protein response and regulate protein conformation and structure as well as function. Thus lipid droplet can modulate protein conformation and function. The lipid droplet is involved in the formation of prion proteins. Prions are involved in neuronal degeneration and cancer. The lipid droplets are involved in the unfolded protein response associated with ER stress. The lipid droplet also is associated with the lysosome modulating the degradation of misfolded proteins. Thus the lipid droplet modulates protein structure and function and generation of prion proteins. Lipid droplets are the original protocell and prion proteins are another group of primitive organism. Lipid droplets are seen in primordial germ cells and parthenogenetic cells and can induce parthenogenesis. The lipid droplet led to the evolution of archaea in brackish waters as well as the eventual evolution of homo neanderthalis. The lipid droplet organelle in homo neanderthalis induces germ cell and stem cell formation and

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parthenogenesis and asexual reproduction contributing to matriarchy in homo neanderthalis. The lipid droplet organelle is evolutionarily the original protocell and primitive archaea and forms the basis of endosymbiosis and neanderthalisation. The archaea binds to the toll receptor produces mitochondrial dysfunction and inhibition of TCA cycle and resultant activation of the glycolytic pathway for energetics. This produces the metabolic Warburg phenotype in homo neanderthalis. The homo neanderthalis depends upon ketone body oxidation for its energy needs and subsists on ketogenic diet. The consumption of ketogenic diet results in amino acid catabolism and generation of ammonia which can be oxidized by the archaea for its energy needs. The ammonia can combine with carbon dioxide producing urea which can be acted upon by archaeal urease generating ammonia again. The urea can inhibit mitochondrial function and produce protein modulation by carbomylation. It can thus affect the metabolonome. The inhibition of the TCA cycle channels acetyl CoA to the mevalonate pathway synthesizing cholesterol which can be oxidized by the archaea for its energy needs. The cholesterol ring oxidation generates pyruvate which is acted upon by SGPT generating glutamate which is catabolised by glutamate dehydrogenase generating ammonia. The ammonia can be oxidized by the archaea for its energetics. The ammonia can also be converted to urea by the urea cycle for ammonia storage. The urea mediated carbomylation of proteins results in somatic cell dysfunction and resultant takeover of the human cells by endosymbiotic archaea producing a zombie syndrome with the cell machinery taken over for cholesterol synthesis and oxidation as well as ammonia formation and oxidation subserving archaeal energetics. Urea serves as a substrate for ammonia storage. The aquatic ape evolved in the brackish backwaters of peninsular India and Kerala. The aquatic ape evolved from the bonobo monkeys and eventually developed into homo neanderthalis. The homo neanderthalis and the aquatic ape had a watery home of salty brackish water and the urea served as a substrate for balancing the salt content of the body fluids against the high salt content of the brackish water. The aquatic ape and the homo neanderthalis fed on fishes, mussels, crabs as well as tubers of water plants and these habits did not need strong males and was carried out by dominantly by females. The archaeal cholesterol catabolism produced low level of sex hormones in the aquatic ape and homo neanderthalis producing an asexual phenotype with alternate sexual behaviours. This colony of asexual phenotypes was matriarchal and female dominant with essentially served by groups of subservient male eunuchs. The high salt content of the body due to a life in brackish waters served to induce parthenogenesis in the dominant female. The urea synthesis from ammonia was also important in the induction of parthenogenesis. Urea can induce female germinal cells to

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develop into parthenogenetic embryos. Urea can promote transformation as well as preservation of stem cells and germ cells. The endosymbiotic archaea can produce germ cell transformation as well as stem cell transformation and induce parthenogenesis. Parthenogenesis would have been the dominant form of reproduction in the aquatic ape and homo neanderthalis.

Urea synthesis can occur in the liver, the skin and brain of homo neanderthalis and to some extent in homo sapiens. The homo neanderthalic brain evolved due to endosymbiotic magnetotactic archaeal endosymbiosis. The magnetotactic archaea and porphyrions can produce increased absorption of low level EMF producing cortical atrophy and cerebellar dominance. This produces the cerebellar cognitive affective disorder homo neanderthalic brain phenotype with its impulsive behaviour, social withdrawal, creativity and autistic as well as schizophrenic phenotypes. The endosymbiotic archaea uses ammonia as an energy substrate and ammonia is stored in urea molecule for use as and when it is required. The urea synthesis in the homo neanderthalic brain is significant in this respect and serves the purpose of endosymbiotic archaeal energetics. The homo neanderthalic brain can be considered as quantal computing magnetotactic archaeal colony. The homo neanderthalic neuronal cells and circuitry are converted to zombie circuits by neuronal and synaptic protein carbomylation by brain urea. Thus the brain urea synthesis is of great importance in the functioning of the magnetotactic archaeal colony dominated zombie brain of homo neanderthalis. The urea synthesis is also important in the adaptation of the aquatic ape and homo neanderthalis to the salty brackish backwaters of Kerala and maintaining balance between sodium content of body fluids and brackish salt water. The urea molecule is also important in the generation and preservation of stem cells and germ cells as well as their parthenogenetic induction required for formation of embryos by asexual reproduction. Thus the ammonia oxidation and urea synthesis is crucial in endosymbiotic archaeal energetics which gives life to the zombie scaffold of Neanderthal body and brain, the maintenance of the magnetotactic archaeal colony network which functions as the controlling power in the Neanderthal zombie brain and in the generation of stem cells and germ cells and the induction of parthenogenesis. Lipid droplet synthesizes anandamide a cannabinoid receptor agonist. N arachidonoyl phosphatidyl ethanolamine (NAPE) is acted upon by phospholipase C and D to produce phosphoanandamine which is acted upon by phosphatases (protein tyrosine phosphatase) to produce anandamine. Anandamide can affect brain neurotransmission and play a regulatory role in the brain. It can modulate brain neurotransmission. Anandamide can inhibit

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glutamatergic, gabergic, glycinergic, cholinergic, noradrenergic and serotoninergic transmission. Anandamide is a cannabinoid and can produce a dreamy hallucinatory state characteristic of neanderthalic behaviour.

Archaeal membrane peptidoglycan and lipopolysaccharide can induce the formation of lipid droplets. The lipid droplets are also referred to as lipid bodies, oil bodies and adiposomes and are a specific set of cell organelle. It is required for the storage and hydrolysis of neutral lipids and is seen in adipose tissues. It is a reservoir for cholesterol and acyl glycerol for membrane formation. Proteins are detected in lipid droplet and it is dynamic organelle involved in regulation of lipid metabolism and lipid storage. Lipid droplets are the site of synthesis and metabolism of eicosanoids and are involved in inflammatory response. Lipid droplet inhibits the cell immune system. It changes the cellular immune system to TH 2 type. The lipid droplets inhibit the macrophages from secreting TNF alpha. It suppresses the IL 2 mediated lymphocyte proliferation. It inhibits the cytotoxic T cell and NK cell. It inhibits the macrophage antigen processing system. The lipid droplets suppress the immune system and can modulate the pathogenesis of autoimmune diseases. The lipid droplets are important in immune regulation. The lipid droplet anandamide can induce AMPK which can stimulate catabolic pathways and block anabolic pathways. The lipid droplet induced AMPK can activate amino acid and fatty acid oxidation and inhibit protein synthesis. The lipid droplet anandamide activation of AMPK can increase cellular NAD producing sirtuin signaling and histone deacetylase activity. This can produce life extension of Neanderthals. Thus the lipid droplet organelle can regulate the endocrine system, the metabolic pathways, protein function and structure, nuclear function and structure, immune response, mitochondrial function and longevity of individual. The lipid droplet organelle is the most primitive symbiotic organelle of the cell and can modulate all aspects of cell function and produce neuro-immuno-endocrine-genetic-metabolic integration.

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The Neanderthal phenotype gives clues as to the origin of the humans. The Naga tribes of South India were hypothesized to originate in the ancient Lemurian landmass which got broken up by tsunamis and earthquakes. The remnants of the Neanderthal phenotype are seen in the Australian aboriginals, the New Zealandian Maoris, the Dravidian Tamils and Nairs. These societies are predominantly matriarchal and serpent worshipping. The homo neanderthalic possibly arose in the Lemurian oceanic landmass supporting the theory of the aquatic ape origin of humans. The accepted theory of human origin postulates the origin of humans from primates in the African savannahs. Several points give clue to an origin of the

human species in water. The neanderthalic behaviour can be compared to the behaviour of the bonobo monkeys or lemurs seen in the ancient Lemurian continent. The homo neanderthalis would have originated from the bonobo monkeys in the Lemurian backwaters communicating with the sea. The bonobo monkeys owing to shortage of food would have started foraging the backwaters and sea for fish and tubers of water lilies. The fish contains essential fatty acids like docosa hexaenoic acid and tubers contain plenty of carbohydrates. The brain is exclusively dependent on carbohydrates and ketone bodies for energy. The essential fatty acids increase the brain growth. The brain growth in humans is called encephalisation which is more than in primates and is equivalent to sea mammals like the dolphin and whales. The bonobo monkeys would have waded into water and stood in water generating the phenomena of bipedalism. This would have freed their hands to catch fish and break shellfish to generate food. This would also have freed the hands to collect and eat the tubers of water plants. The human species lack hair unlike the primates but like the aquatic mammals. The human species have increased subcutaneous fat like aquatic mammals and unlike primates. The human beings have got eccrine sweat glands and tear glands useful in a watery environment. The human trachea is placed down in the neck unlike that in primates where it is more nasal. The human language points to an aquatic origin for human species. For the human language to develop you have to consciously control your breathing which does not exist in primates but in humans and aquatic mammals. The humans have the diving reflex. The smooth skin with sparse hair and thick subcutaneous fat for insulation points to an aquatic origin for humans like aquatic whales and dolphins. The webbed feet and hands also point to an aquatic origin. The sebaceous glands with its greasy secretion point to water-proofing in humans and aquatic origins. The homo neanderthalis unlike the homo sapiens is more of an aquatic swimming type. The homo neanderthalis had longer lungs and increased respiratory capacity which helped them to dive into water and float in water. The homo neanderthalis owing to their SLOS phenotype and albinism had vitamin D deficiency. Vitamin D is synthesized from cholesterol. The homo neanderthalic bone was thin as compared to the darkened vitamin D rich homo sapiens. The long lungs and the thin bone helped the homo neanderthalis to float in water. The origin of paranasal sinuses were for the human species to hold its head above water. The human beings sexual behaviour is like aquatic mammals and unlike primates with front to front population. All these differences point to an aquatic origin for the human beings or an aquatic ape hypothesis. The homo neanderthalis originated from the bonobo Lemurian monkeys which waded into water to search for food. The bonobo monkeys sexual behaviour and promiscuousness and alternate

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sexuality are comparable to homo neanderthalis. The homo neanderthalis arises owing to archaeal endosymbiosis. The waters of the ocean and backwaters are rich in marine archaea which are capable for acetogenesis and methanogenesis. The backwaters and sea of the South Asian peninsular landmass is rich in actinides, the bathyarchaeota. They are capable of acetogenesis and are a source of organic carbon. The actinides would have formed scaffolds for the formation of complex life molecules like RNA, DNA, protein, isoprenoids and complex carbohydrates. This would have produces RNA viroids, DNA viroids, isoprenoid organism and prions on actinidic surfaces which would have symbiosed to form archaea and eventual multicellular organisms. The multicellular organisms arising on abiogenetic actinidic surfaces in the backwater-ocean connections seen in Southern peninsular India which broke away from the Lemurian landmass would have evolved into eukaryotes, prokaryotes, multicellular organisms and symbiotic plants/animals. The bonobo Lemurian monkeys would have evolved into homo neanderthalis by archaeal endosymbiosis in the actinidic shores of backwaters, lakes and oceans of peninsular India. The remnants of homo neanderthalis is seen in Australian aboriginals, Maoris and Dravidians which are all matriarchal and serpent worshipers. The aquatic ape and homo neanderthalis would have evolved in the actinidic sand shores of backwaters and lakes of Lemuria and peninsular India. The Dravidian communities are matriarchal and female dominant. There is a high degree of consanguinity and inbreeding in the Dravidian matrilineal communities. Parthenogenesis would have been dominant in such communities with matriarchy producing syndromes of the male eunuchs and oshtoran syndromes. The homo neanderthalis ate a carnivorous diet. The teeth were longer compared to homo sapiens and the canines were prominent comparable to fangs of snakes. The cows and bulls were domesticated by the homo neanderthalis which were originally hunters and warriors hunting on mammoths. The domestication of cows and bulls resulted in a high consumption of milk and meat including beef. This resulted in the generation of a lactose tolerant adult population. The gene for lactose tolerance arose 12,000 years ago. The relationship between the cows and Neanderthals could be described as parasitic obligate symbiosis. The origin of cow worship and bull worship in peninsular Indian religions can be related to it. The increased consumption of a carnivorous diet of milk and meat resulted in increased tryptophan intake and catabolism generating more of kynurenines producing immune suppression and immune escape required for parthenogenesis. The immune suppression also produced cold bloodedness of Neanderthals for survival in the cold watery climate. The elements of this culture are still seen in the matriarchal Dravidian communities of peninsular India. The actinidic sea shores and backwater shores of peninsular

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India is where the homo neanderthalis or the aquatic ape originated. The culture of the Dravidian peninsula is matriarchal and the religious traditions still continue with serpent worshipping culture. This can be called as the mermaid culture. The aquatic ape theory finds echoes in the culture of peninsular India. There were monkey kingdoms with aquatic apes building even land bridges in the sea as noted by the Ramayana epic. The myth of Hanuman and his army of warrior primates or aquatic apes is pertinent in this context. The warrior aquatic apes were supposed to have built the land bridge between Sri Lanka and peninsular India. The warrior aquatic apes had kingdoms governed by kings like Bali and Sugreeva. The primate warriors were intelligent and could move about in the ocean and mangrove swamps and behaved like aquatic apes.

The human hairlessness, thick subcutaneous fat, webs in the feet and toes, shape of the nostril all point to a watery origin for the human race in mangrove swamps, backwaters and seas. The presence of diving reflex in humans, sweating, tearing, descended human larynx in the neck, hair tract patterns, the presence of hymen and vernix caseosa in babies like seals point to a watery origin for humans. The reproductive behaviour of humans with front-to-front population like aquatic mammals points to the watery origin for humans. The great apes would have come down from the trees and went through an aquaboreal phase where it waded through swamps feeding on molluscs, fruits and fish producing bipedalism. The need to excrete large amount of salt in sea or brackish water leads to the origin of tears and eccrine sweat glands. The human nose is protruded unlike that of primates to protect it from water. The human hairlessness, thick subcutaneous fat and sweating point to the watery origin for humans and bipedalism. The encephalisation of the brain was due to the large intake of omega-3 and omega-6 fatty acids from fish. The human jaw is short with short teeth unlike Chimpanzees pointing to eating of marine food. All naked mammals are aquatic like the dolphin, the manatee, elephant, pig and rhinoceros. The human beings are the only naked apes. The increased subcutaneous fat or blubber in human babies and vernix caseosa of babies point to a watery origin for human species. The human beings have the lacrimal glands and sweat glands to excrete salt in a sea environment. The human babies are plump with 16% body fat and the human milk contains 25% fat. The babies roll over on their body and float in water with their nose in air. The fact that human babies can swim, points to a watery origin for the human species. The Chimpanzees' hand is light and strong to hang from trees. The human babies hand is too heavy and weak and can grasp onto the hair of the mother while swimming in water. The human babies have developed the grasp response for this type of

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evolution. The human species female has long oily sebum coated scalp hair. The infant chimps have got a strong neck which is kept steady. The human baby attains neck steadiness at six months, but if the baby is placed in water the neck becomes strong. The human speech arose due to the conscious control of respiration which the chimp can't. The speech also owes its origin to the position of the larynx in the neck. The pincer grip of humans is developed to get meat out of shell fish and mussels which is called as precision grip. This theory was put forward by Elaine Morgan. The backwaters contain water lilies and tubers whose roots were consumed by the primitive humans along with fish, mussels, snails and shell fish. The water lily and lotus roots and leaves contain alkaloids like nupharine and aporphine which are psychoactive and gives rise to the dream state of Neanderthals. The lotus and water lilies are associated with creation myths like that of the sun God Ra emerging from the lotus in primordial waters and the Brahma the creator seated on the lotus. The homo neanderthalis emerged first in the Lemurian landmass which was more like a big island susceptible to breakage to independent landmasses owing to widespread tsunamis in the region. This would have lead to inbreeding in the Neanderthals leading onto loss of genetic diversity and expression of reptilian genes. This would have also contributed to the eventual extinction of Neanderthals. The aquatic ape would have arose as homo neanderthalis in the Lemurian landmass and its breakaway regions like the backwaters linked to the sea regions of Kerala with actinidic sands. This is indicated by the persistence of matrilineal society in the Dravidians of Kerala and the detection of endosymbiotic archaea in the blood of Kerala population. The psychometric neanderthalic quotient is high in the population of Kerala with a high incidence of autism. Matrilineality and consanguinity is common among the Dravidian Nair population of Kerala. The Dravidians tend to have a Neanderthal phenotype. The Dravidian Nairs are postulated to have a Scythian origin. Serpent worship, serpent music and serpent dances are common in Kerala. The communities in Kerala are mostly carnivorous and consume beef. The culture in Kerala is more tolerant and Keralites migrate all over the world and mix with different societies. Tolerance and inclusiveness is a feature of NQ quotient. Serpent temples are widespread in Kerala. Kerala has got a higher incidence of Neanderthal genomic sequences related diseases like autism, schizophrenia, ADHD, addictions, metabolic syndrome, autoimmune disease and cancer. It is tempting to locate the origin of the upright aquatic ape in the extended backwaters and lakes of Kerala with its connections to the sea and its actinidic sand rich shores. The backwaters are rich in fresh fish and mussels and water lilies and lotuses giving tubers and roots. The homo neanderthalis evolved from archaeal endosymbiosis and marine archaea are dominant in the seas of the Indian ocean and

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backwaters of Kerala. Serpent worship is a dominant theme in the Dravidian Nair culture and serpent God Anantha is the dominant deity. This tempts us to speculate on the origin of bipedalism, human species and homo neanderthalis in Kerala.

The origin of the aquatic ape points to the dominant role for the female of the species in human evolution. Human evolutionary theories have focussed on the hunter gatherer and tool maker males. The watery origin of bipedalism and human species points to a dominant role for woman in human evolution. The body anatomy of the females with pendular mammary glands and rounded glutei are for floating and buoyancy and not for sexual attraction. This produces a gynocentric approach to evolution as against an androcentric approach. Evolution was basically meant for protection and rearing of children. Humans have evolved in swamps, backwaters and sea and are not biologically or socially inferior to men. The homo neanderthalis have got features unlike that of chimpanzees. The social patterns of homo neanderthalis can be compared to the bonobo monkeys. The bonobo monkey society is female centered and egalitarian. Sex is a part of social relationship and serves as a substitute for aggression. The bonobo monkeys have different types of sexuality heterosexual, and male to male and female to female. The frequency of sexual interaction is more but the reproductive rate of bonobo monkeys is the same as chimpanzees. The chimpanzees evolved in the open dry savannah while the bonobo monkeys still lived in trees and hanged down from trees. The tree habitat of the bonobo monkeys lead them to an evolutionary form of life where they can hang from mangrove trees in swamps and eventually wade in water. The bonobo monkeys are pigmy monkeys with male weighing 43 kg and female 33 kg. They are omnivorous and eat fruits, small amount of vertebrates and invertebrates. They have imaginative plays and have sex in missionary positions. They have wide variety of sexuality and group behaviour. Sex was a means of social relationships. The female bonobos bonded among themselves and led the community. The male bonobo is attached to his mother and depends on her for protection throughout life. The bonobo society can be compared to a matriarchal female dominant Neanderthal society.

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The female dominant model of human evolution raises the question of who evolved first- the male or the female. The original fossils of human species are predominantly female and the male fossils evolved after billions of years. The original human species would have been a cluster of female bipedals in swampy waters feeding on tubers of water lilies and lotus as well as fish, mussels and shell fish. The women can reproduce by parthenogenesis like lower animals. Therefore it is natural for the female of the species to evolve first. The sexual

relationship in such female only societies in primodial times was lesbian. The evolution of males occurred at a later date. The macho model of human evolution with male hunter and male toolmaker and a female accomplice evolving together is highly unlikely. The next stage of human evolution has been postulated to be interspecies hybrids. This was put forward by Eugene McCarthy. McCarthy pointed to several features of men of humans similar to pigs. Pig organs can be transplanted to humans without rejection. The pigs like humans are hairless, have thick layer of subcutaneous fat, protruding nose and heavy eye lashes. The pig genetic sequence contains similar SINE element ALU as humans. The phenomenon of crossing the species barrier is represented by the generation of the swine flu epidemic in humans. The early bipedal female only human species would have generated human pig interspecies hybrids. This would have generated interspecies hybrids of males and females. The male sexual organ corresponds to the tail of mammals. Similarly sex organs of species like snakes correspond to limb buds. The human embryo in its various stages of development can be compared to fishes, amphibians and lower animals. Interspecies hybrid would have led to the development of male and female of the species. The water mammals like cows, bulls, pigs, elephants, rhinoceros, turtles, crocodiles, water snakes and giant tortoises would have contributed to the generation of interspecies hybrids. This would have generated a population of both male and female bipedals in the swamps with different type of sexual interactions-heterosexual, bisexual, homo sexual and lesbian. Genetic diversity is required for a species to survive. Thus heterosexuality as a mode of sexual behaviour would have become acceptable to society as such. Bacterial and archaeal conjugation with human cells have been described. Chimeras of humans and animals have been produced in labs. Interspecies hybrids have been generated in human labs and populations have been produced. Interspecies hybrids include the dzo between yak and cattle, zubron between cow and bison, cama between camel and illama, yakulo between yak and buffalo, sheep-goat and mules. This exemplified by the Plant of the Apes. The interspecies hybrids would have been protected from pre-zygotic and post-zygotic isolation and destruction by the phenomena of immunosuppression and immune escape mediated by tryptophan catabolite kynurenine. A fish diet in swampy waters is rich in tryptophan. The Hindu myth of creation of Matsya the fish, Koorma the tortoise, Varaha the boar and Narasimha the lion point to the generation of interspecies hybrids as the main lynch point of evolution. The generation of human brain structure also depends upon interspecies hybridisation. The reptilian complex of the brain is dominant in Neanderthals. The reptilian complex is seen in amniotes which include mammals, reptiles and birds. The reptilian complex of the reptilian brain includes the basal ganglia, the brain stem and cerebellum. This

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forms the basis of the cerebellar cognitive affective disorder in Neanderthals. The reptilian brain is the site of imagination, intuition, instinct, compulsivity and dreams. It communicates by symbols and archetypes. It is the site of obsessive compulsive disorder, superstition, ritualism, slavishness and conformation to all way of doing things. It is the site of territoriality, aggression, racism, violence and hypersexuality. The reptilian complex is dominant in amphibians, fishes and reptiles. The Neanderthal brain has got cerebral cortical atrophy and cerebellar dominance. The reptilian brain and reptilian genes are dominant in Neanderthals pointing to interspecies hybridisation of the first evolving Neanderthal females and matrilineal female only Neanderthal society. The interspecies hybrids are signified by the importance of even toed ungulates like pig and cattle in human culture and religion. The even toed ungulates include cattle, pig, deer, camel, sheep, goat and hippopotamus. The odd toed ungulates include rhinoceros and horses. The aquatic cetaceans like whales, dolphins and purpoises evolved from even toed ungulates. Dolphins can communicate with humans. The aquatic cetaceans and even toed ungulates together form a family called cetardiodactyla. The even toed ungulates form large social groups with hierarchy, harem groups and bachelor groups. They mark their territory through glandular secretions. The ungulates can swim and whales and dolphins can gallop in water. The pig antigens have great similarity with human antigens and pig organs can be xenotransplanted into humans. The rejection is due to the presence of retrovirus in the pigs which infects humans. The targeted deletion of retrovirus related DNA from pigs makes pig a valuable source for organ transplantation. The retroviral deleted pig has been cloned and developed into embryos and implanted into sows. The pigs serve as a reservoir for human organ transplant. Hog organs can be transplanted to humans if immunized against human serum. Horse serum is used to develop tetanus antibodies and snake anti-venom. The consumption of beef leads to the development of prion disease in humans. Porcine insulin can be injected into humans and porcine heart valves can be transplanted to humans. Cow products like milk, dung and urine are used as human medicines. Human stem cells injected into pig embryos have resulted in the development of human pig chimeras. These human pig chimeras can be used for organ transplantation. The development of human-ungulate chimera embryos points to the importance of interspecies hybridization in human evolution. This is signified by the worship of cow as Kamadhenu or mother Goddess in Hindu culture, the worship of Varaha, the boar as one of the avatars of Vishnu and the religious relationship between Satan and pigs in Semitic religions. The Hindu star signs in religion and astrology have a figurative animal representation. This points to interspecies hybridization playing an important role in evolution.

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Somatic parthenogenesis is due to climate change. Climate change can produce archaeal endosymbiosis and archaea and archaeal RNA viroid induced parthenogenesis. In response to stress somatic cells can get transformed to stem cells by endosymbiotic archaea. Stem cell metabolonomics- anaerobic glycolysis, PDH dysfunction, CoQ deficiency mitochondrial dysfunction, branched chain keto acid dehydrogenase dysfunction, homo cystinuria and genomic demythelation, porphyrias and reactive oxygen species generation, SLOS (Smith Lemli Opitz) leading to cholesterol depletion, low sex hormones, vitamin D deficiency and bile acid deficiency. Stem cells can undergo endoreduplication, cell fusion and budding and bursting like bacteria producing polyploidy. These polyploidal cells can become parthogenic embryos. The polyploidal cells are stress resistant and genomically unstable. The polyploidal cells are genomically, metabolically and phenotypically different and unstable. They can get converted to different tissues like brain, liver and heart forming somatic embryos. Multiple somatic embryos with polyploidy produces multiple personality disorders – schizophrenia, autism and mood disorder. Multiple somatic embryos with polyploidy are antigenic and can produce an autoimmune disease. Multiple somatic embryos with polyploidy are genomically unstable can produce cancer. Parthogenesis can lead to social changes including matrilineal societies, alternate sexualities and different identities. Multiple somatic embryos with polyploidy are metabolically and genotypically unstable leads to neurodegeneration. Multiple somatic embryos with different metabolic instability can lead to metabolic syndrome. Archaea and RNA viroid induced mitochondrial dysfunction and upregulated glycolysis resulting in stem cell transformation of somatic cells. The somatic cells which are stem cell transform in the setting of immune activation and cytokine secretion can get converted to germinal cells – sperm and ova. This can result in fertilisation and parthenogenesis. Archaeal digoxin can produce intracellular magnesium deficiency and failed mitosis due to spindle dysfunction. This can produce polyploidal cells. The polyploidal cells can assume stem cell functions. The stem cells can mimic germline cells. The meiotic programs of the polyploidal stem cells can get activated generating cleavage embryos, morulas which can get converted to tumour spheroids. The spheroids can get converted to blastocyst and post implantation embryos producing oncogenesis. They can also dissemble producing metastasis.

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The Neanderthals ate a high protein high fat non-vegetarian diet by hunting and scavenging mammoths and other animals. This resulted in heavy load of tryptophan in the system producing tryptophanuria and tryptophanemia. The meat contains a high level

tryptophan and haemoglobin which can induce the enzyme indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase which are both heme enzymes. The Neanderthals ate a low fibre diet resulting in decrease supply of short chain fatty acids especially butyrate from the gut. Butyrate can suppress indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase and a fibre deficient diet in Neanderthals can upregulate the activity of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase resulting in increased catabolism of tryptophan along the kynurenine pathway. Natural substances that are deficient in non-vegetarian diet like brassica alkaloids, curcumin, caffeine, tea and coca can inhibit indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase which becomes over active in Neanderthals producing tryptophan catabolism. The tryptophan is metabolised to formyl kynurenine, hydroxy kynurenine, kynurenic acid, 3-hydroxy anthranilic acid, quinolinic acid and NAD. Kynurenine can bind to AHR receptor producing immunomodulation and immunosuppression. It can produce immune tolerance in case of embyrogenesis, parthenogenesis, autoimmunity, cancer, lipopolysaccharide tolerance and chronic infection. The kynurenine can produce suppression of T cells and immunity leading to immunotolerance important in the above mentioned states. Thus kynurenine pathway flux can contribute to embryogenesis and parthenogenesis by producing immune tolerance. The tumours can escape immune destruction by suppression of NK cells and T cells. Thus tumour metabolism depends upon activation of the tryptophan catabolism along the kynurenine pathway. The kynurenine pathway is activated in lipopolysaccharide tolerance and chronic infections producing immunosuppression and immunotolerance. The archaeal endosymbiosis depends upon immunotolerance and immunosuppression by activating tryptophan catabolism along the kynurenine pathway. The tryptophan catabolism along the kynurenine pathway can also contribute to psychiatric disorders. Kynurenine blocks the NMDA receptor and alpha-7 nicotinic receptor. This results in down regulation of NMDA and cholinergic transmission. Kynurenine can also upregulate dopaminergic transmission. This results in schizophrenia and autism. The tryptophan catabolism along the kynurenine pathway blocks serotonin synthesis from tryptophan contributing to depressive and anxiety disorders. The tryptophan catabolism along the kynurenine pathway can result in quinolinic acid synthesis and immune activation resulting in autoimmunity, immune tolerance as well as immune activation. Kynurenine can produce immunosuppression and NMDA blockade while quinolinic acid can produce immune activation and NMDA excitotoxicity. The tryptophan catabolism along the kynurenine pathway can generate quinolinic acid important in neurodegeneration. The tryptophan flux along the kynurenine pathway can generate quinolinic acid which can

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produce low grade inflammation and insulin resistance causing metabolic syndrome. Thus the flux of tryptophan along the kynurenine pathway can produce autoimmune disease, neurodegeneration, schizophrenia, depression, autism, cancer and metabolic syndrome. The induction of heme enzyme indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can lead to heme depletion and induction of ALA synthase increasing porphyrin synthesis and producing porphyrias. The porphyrins can form self-replicating porphyrions. The porphyrions form a template for the formation of RNA viroid, DNA viroid and isoprenoid organism which can symbiose together to form an endosymbiotic archaea by abiogenesis. The induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase produces kynurenine which can suppress the immune system generating immunotolerance and archaeal endosymbiosis. Thus the tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase results in systemic civilizational disorders in Neanderthal population. The tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can result in immune tolerance and immunosuppression by kynurenine producing archaeal endosymbiosis and neanderthalisation of the species. The tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can result in immunotolerance that can contribute to parthenogenetic embryogenesis or somatic pregnancy in multiple tissues in Neanderthals. The tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can produce an autistic schizophrenic tribe of Neanderthals with parthenogenesis and matriarchy.

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The archaeal endosymbiosis produces neanderthalisation of the species. The archaea can activate the enzyme AMPK (Adenosine monophosphate kinase). The Neanderthals consumed a ketogenic non-vegetarian diet rich in fat and protein. The neanderthalic ketogenic diet can induce AMPK activation. The aquatic ape phenotype ate a lot of fish diet and fish fatty acids can produce AMPK activation. The aquatic ape phenotype also ate lots of tubers of backwater plants like lotus and water lilies containing high amount of glucomannan producing AMPK activation. The water plant tubers contain high amount of fibers whose digestion generates short chain fatty acids like acetate, butyrate producing AMPK activation. Amino acids and fatty acids can induce AMPK activation. AMPK activation can induce by low glucose and oxygen deprivation states of ice age. The Neanderthals had a cerebellar dominant phenotype with increased sympathetic activity producing the impulsive fear, flight, fight phenotype. The catecholamines- epinephrine and norepinephrine and dopamine can produce AMPK activation. The AMPK activation can result in simultaneous mtor activation

resulting in dendritic spine pruning defects and an autistic Neanderthal brain. AMPK activation results in simultaneous activation of the HIF alpha and the induction of the Warburg phenotype and stem cell phenotype. AMPK activation can induce UCP proteins uncoupling oxidative phosphorylation leading to mitochondrial dysfunction. AMPK activation leads to increased catabolism and reduced anabolism. AMPK activation results in weight loss. AMPK activation can also lead to increased insulin signaling and IGF activity. The glycolysis, fatty acid oxidation and amino acid oxidation is increased. The protein synthesis is inhibited. The AMPK activation reduces fatty acid, cholesterol and triglyceride synthesis and increases their breakdown. The increased amino acid oxidation results in tryptophan catabolism producing increased amounts of kynurenines which are important in immune escape and parthenogenesis. The AMPK activation resulting in the stem cell phenotype results in generation of germ cells. The AMPK activation can activate the oocyte into development of parthenogenetic embryos. AMPK activation can increase intracellular calcium oscillations, increased intracellular ROS and AMP/ADP ratio resulting in the shock and wave activation of oocyte producing parthenogenesis. The AMPK activation can suppress the immune system producing immune escape and parthenogenetic embryogenesis. AMPK activation can increase the life span of the species and preservation of the Neanderthal phenotype. AMPK activation can produce cardiac protection and neuroprotection. AMPK activation is important in fertility, stem cell transformation and generation of germ cells. AMPK activation can uncouple oxidative phosphorylation as well as produce mitochondrial biogenesis. AMPK activation has a antioxidant effect by inducing NRF 2, superoxide dismutase and UCP. AMPK activation results in reduce generation of free radicals which act as messengers for endogenous retroviral replication. This produces a rigid genome, defective synaptic connectivity and cerebral cortical atrophy. AMPK activation induces glycogenolysis and inhibits glycogenesis. AMPK activation also increases glucose transport. The mitochondrial oxidative phosphorylation is blocked by AMPK activation by induction of UCP proteins. The glucose is converted to fructose by aldose reductase and sorbitol dehydrogenase induced by archaea and enters the fructolytic pathway. This results in fructosemia and increased synthesis of lipids and mucopolysaccharides resulting in a hibernation syndrome characteristic of Neanderthal metabolonomics. The AMPK activation also results in inhibition of protein synthesis and increasing autophagy/mitophagy and body renewal increasing the life span of the species. Thus the archaea induced AMPK activation leads to the generation of parthenogenetic species which is female and maternal dominant. AMPK activation occurs in hibernation and Neanderthals have a hibernatory syndrome. 5’

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AMP can activate AMPK producing hypometabolism and hibernation. The endosymbiotic archaea synthesizes digoxin by cholesterol catabolism. The endosymbiotic archaea uses cholesterol as an energy substrate. Digoxin can produce membrane sodium potassium ATPase inhibition and this can lead to membrane ATP synthesis. Sodium potassium ATPase functions as a ATP synthesizing enzyme in Neanderthals. Low level of EMF can also produce sodium potassium ATPase inhibition and membrane ATP synthesis. The ATP gets acted upon by ectoATPases which converts ATP to 5' AMP which can activate AMPK producing upregulation of catabolic pathways. Cholesterol catabolism can generate bile acids which can uncouple oxidative phosphorylation and regulate mitochondrial function leading to hibernatory metabolonomics. AMPK activation can lead to cholesterol catabolism and further digoxin synthesis. AMPK activation can increase cellular NAD levels producing activation of sirtuin-1. Sirtuin are NAD depended histone deacetylase. Sirtuin-1 activation can produce rejuvenation in the presence of caloric restriction occurring during hibernation. Sirtuin-1 mediates AMPK activation depended modulation of mitochondrial function. Sirtuin activation can induce hibernation and rejuvenation. Sirtuin modulate genes involved DNA repair, inflammation, fat synthesis and storage as well as glucose metabolism. Sirtuin can produce deacetylation and strengthen the carbon backbone of proteins increasing the longevity of proteins. AMPK activation, NAD accumulation, sirtuin activation and HIF alpha activation occur together. This can produce a hibernatory state and immune escape leading to parthenogenesis. The Neanderthals ate a high fat high protein ketogenic diet as well as diet rich in backwater tubers containing dietary fibre. Ketogenic diet, amino acids, caloric restriction, fatty acids and dietary fibre generated short chain fatty acids can induce AMPK activation, NAD accumulation, sirtuin activation and immunosuppression producing immune escape and parthenogenesis. AMPK activation and sirtuin activation can lead onto the Warburg phenotype, stem cell transformation, generation of germ cells and oocyte stimulation resulting in parthenogenesis.

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Neanderthal evolution was determined by archaeal endosymbiosis. The human species evolved into homo neanderthalis by archaeal endosymbiosis. Archaeal endosymbiosis was mediated by the tryptophan catabolic kynurenine pathway. The kynurenines can produce immunosuppression and immune tolerance resulting in archaeal endosymbiosis. The kynurenine pathway results in blockade of the NMDA receptor, cholinergic nicotinic alpha-7 receptor, decrease production of serotonin and increase dopaminergic transmission. This produces an autistic, schizophrenic Neanderthal tribe with less of frontal executive function

and more of cerebellar dominance affective impulsive type behaviour. The induction of indolamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase led to channelling of tryptophan catabolism along the kynurenine pathway. The Neanderthals ate a high protein non-vegetarian tryptophan diet leading to an induction of tryptophan catabolism. The Neanderthal diet was deficient in dietary fibre and fibre digestion generated short chain fatty acids especially butyrate resulting in increasing indolamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase activity and more of tryptophan catabolism. The kynurenine pathway results in generation of quinolinic acid which can produce chronic immune activation and insulin resistance. Quinolinic acid is also involved in neurodegeneration. The kynurenine induced immune cell as well as NK cell suppression can result in evolution of cancer. The archaeal endosymbiosis generated by kynurenine induced immunotolerance can lead onto cancer, autoimmune disease, metabolic syndrome, neurodegeneration, schizophrenia and autism by generation of archaeal cholesterol catabolite digoxin. Thus the higher load of tryptophan due to a meat diet and low fibre diet results in generation of kynurenine which has a ketamine-like action producing Neanderthal behaviour. The induction of heme enzymes indolamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase results in heme depletion, activation of ALA synthase and porphyrias. The porphyrins can self-organize to form porphyrions and can act as a template to generate isoprenoid organism, RNA viroids, DNA viroids which all symbiozed to form actinidic archaea. The porphyrions have a wave-particle existence and in the presence of membrane intercalated porphyrion mediated sodium potassium ATPase inhibition can result in a pumped phonon system and dipolar porphyrion mediated quantal perception. The porphyrion intercalated cell membrane and sodium potassium ATPase inhibition can result in increased intracellular calcium and decreased intracellular magnesium resulting in mitochondrial dysfunction, cell membrane dysfunction, golgi body related protein processing dysfunction, defect in DNA and RNA function and disordered cell function. This increased intracellular calcium and reduced magnesium due to sodium potassium ATPase inhibition can result in immune activation, glutamate excitotoxicity, oncogene activation and disease states. The immune tolerance produces cancer, stem cell transformation and parthenogenesis. The cancer stem cells can develop meiotic programs generating parthenogenetic embryos which can survive and grow in the presence of immune tolerance created by kynurenines. The multiple parthenogenic embryos can create multiple personalities leading to schizophrenia and autism, grow into cancer, its stem cell metabolism with increased glycolysis and mitochondrial dysfunction can produce metabolic syndrome, stem cell mediated increased glycolysis can lead to immune activation and the normal tissue

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dying at the expense of parthenogenic embryos can produce degeneration. The chronic inflammation induced by quinolinic acid and other tryptophan catabolites producing autoimmune disease and quinolinic acid related cell death and degeneration. The tryptophan catabolic pathway produces civilizational syndromes in Neanderthals leading to their extinction. The tryptophan loading in higher primates and homo sapiens due to increased meat eating carnivorous habits in Eurasian steppes resulted in kynurenine catabolite induced immunosuppression, immunotolerance, archaeal endosymbiosis and neoneanderthalisation. Thus tryptophan loading due to a high meat and low fibre diet mediated kynurenine generation and immunotolerance would have led to archaeal endosymbiosis and evolution of homo neanderthalis and homo neoneanderthalis. The Neanderthals due to archaeal endosymbiosis had stem cell transformation, activation of meiotic programs in the stem cells, generation of germ cells and parthenogenesis. This resulted in female dominance and matriarchal societies. The intraspecies hybridisation and intragenomic conflict would also have contributed to parthenogenesis and reptilian gene expression consequent to interspecies hybridisation and intragenomic conflict. The genes affected are PDH, BKCD, SLOS, porphyria, Hartnup's disease, decreased cholesterol synthesis, CoQ synthesis and vitamin D synthesis. The Hartnup's trait would have developed to counteract the tryptophan loading in Neanderthals consequent to a high meat diet. This produces what is called as increased tryptophan catabolism and kynurenine catabolites mediated oshtoran syndrome described initially in the pericaspean areas. Endemic oshtoran syndromes would have existed in the Neanderthal population producing refractory thought and mood disorders, movement disorders including chorea and tic as well as schizophrenia and autism. The generation of tic disorders as a part of epidemic or endemic oshtoran syndrome would have led to vocal tic led language generation. The human language including ancient ones like Akkadian and Sanskrit developed first in pericaspean areas. The endemic oshtoran syndromes can also result in altered fat metabolism fatty liver and cirrhosis. It can produce adrenal dysfunction and hyperactivity producing sympathetic overactivity and parasympathetic underactivity leading to hypertension, vascular disease, cancer and autoimmune disease. The incidence of lupus-like syndromes and multiple sclerosis is high in endemic oshtoran syndrome. The tryptophan catabolism in oshtoran syndrome can produce cognitive dysfunction like Alzheimer's disease, Parkinson's disease and cell death. Parthenogenesis can lead to autistic phenotype with cerebellar dominance and a cerebellar cognitive affective disorder. Parthenogenesis induced reptilian gene expression can produce porphyrias and porphyrin induced extrasensory perception. This produces a creative tribe with quantal perception.

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Archaeal endosymbiosis and neanderthalisation depended upon the kynurenine pathway mediated immunotolerance and immunoparalysis. The tryptophan catabolic pathway and kynurenine can have a ketamine-like effect due to NMDA blockade resulting in ecstasy, CCAS, cerebral cortical paralysis and extrasensory perception. The tryptophan catabolism is directed the kynurenine pathway resulting in depletion of melatonin and nocturnal activity and lack of sleep. The tryptophan catabolites kynurenine and kynurenic acid can produce decreased insulin synthesis, decreased insulin release, decreased insulin biological activity causing insulin resistance. Tryptophan catabolitic syndrome can result in sympathetic overactivity and a dysautonomic syndrome producing fear flight response and impulsivity. The induction of reptilian genes by intragenomic conflict and interspecies hybridisation can result in expression of the shikimate pathway producing alkaloidal neurotransmitter synthesis- LSD, nicotine, strychnine, mescaline producing shamanic states and extrasensory perception. The induction of IDO and heme depletion can result in porphyrias and porphyrion mediated extrasensory perception. The heme depletion can reduce the heme enzyme activities. The heme enzyme cytochrome C oxidase is inactivated resulting in mitochondrial dysfunction. The heme enzymes catalase and glutathione peroxidase are inactivated producing free radical stress. The heme enzyme cytochrome P450 is inactivated producing defective bile acid synthesis due to cholesterol 7-alpha hydroxylase deficiency causing metabolic syndrome X due to bile acid deficiency. The heme enzyme cytochrome F450 deficiency produces defective aromatase and beta hydroxy steroid dehydrogenase producing reduced testosterone, estrogen and cortisol synthesis. This produces the asexual and alternate sexual Neanderthal state. The heme enzyme lanosterol 14-alpha demethylase is inactivated inhibiting cholesterol synthesis and cholesterol depletion syndrome. The heme enzyme retinoic acid hydroxylase and cholecalciferol hydroxylases are deficient producing lack of vitamin D and A, defective immunity and uncontrolled cell proliferation.

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The initial event is an increased tryptophan catabolic pathway producing immunotolerance and immunoparalysis mediated by kynurenine. This produces endosymbiotic archaeal growth and neanderthalisation. This results in conversion of somatic cells to germ cells and activation of meiotic programs resulting in parthenogenesis. The homo neanderthalis reproduces by parthenogenesis. There is a malfunction in sexual reproduction resulting in a parthenogenetic species. Parthenogenesis is induced by actinidic archaea and RNA viroids. Climate change induced stress can produce parthenogenesis. The heme enzymes cytochrome P 450 dependent aromatase and beta hydroxy steroid dehydrogenase are

defective resulting in lack of sex hormones producing asexuality and alternate sexuality. The heme enzymes NOS, CBS and HO1 are defective leading to lack of gasotransmitters NO, CO and H_2S resulting in dysautonomia and sexual dysfunction. The parthenogenesis results in formation of multiple embryos in tissues causing multiple personalities and schizophrenia and autism. Parthenogenesis also produces cancer and autoimmune disease. Parthenogenesis in the brain can result in death of normal tissue and neurodegeneration. The stem cell metabolonomics of parthenogenetic embryos with increased glycolysis and mitochondrial dysfunction results in metabolic syndrome. The heme depletion leads to porphyrias and porphyrions causing quantal perception. The tryptophan catabolic pathway related kynurenine can produce a ketamine syndrome akin to schizophrenia. Similar schizophrenic and autistic syndrome can occur in Neanderthals due to tryptophan alkaloids synthesized by reptilian gene activation- LSD and mescaline. This produces a shamanistic spiritual quantal perceptive society. The porphyrion induced quantal perception of low level EMF can result in cortical atrophy and CCAS and an impulsive state, aggressive state, violence, criminality, spirituality and terrorism. The Neoneanderthals form small colonies and tribal groups. The porphyrion mediated quantal perception results in formation of cohesive small groups with communal living creating an anarchic society. The anarchic society arises due to a cerebellar cognitive affective disorder and cortical atrophy consequent to quantal perception. This anarchic society is small and tribal, violent and aggressive, spiritual and transcendental. This results in loss of national identities and recession to primitive tribal identities. The civilizational national identities collapse and are replaced by small tribal identities causing permanent war, instability and crisis. The parthenogenetic reproduction in Neanderthals and Neoneanderthals as well as the lack of sex hormones related asexuality and alternate sexuality produces a matriarchal female dominant small social groups. This can happen in the setting neoneanderthalisation consequent to endosymbiotic archaeal growth. The neoneanderthalic matriarchal society is female dominant and the males are reduced to a marginal role in society creating complexes of hatred and vulnerabilities. This can be compared to the creation of a society female amazons and male eunuchs. The world tends to be transformed into an anarchic society of Amazonian women and male eunuchs. This represents the castrated male syndrome with deprivation of dignity, integrity, passion and pride. The Neanderthal communities functioned as anarchic small societies with communal living. The concept of altruistic, egoistic and obsessive love and nuclear family was absent in them. They lived as small groups of 15-20 with group consciousness. The porphyrion induced extrasensory quantal perception resulted in well-bonded anarchic communities with

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communal living and parenting of children. Sexual relationships became partnership between equals and functional. They were promiscuous, self-sufficient and were not into socially sanctioned relationships like marriage. The duty of the male eunuchoid was to the small community which is served relationships in the community depended on a common communal consciousness based on extrasensory quantal perception. The neanderthalic and neoneanderthalic communities were matriarchal and gender equal and did not have any hierarchal leadership. There were no kings or queens and it was a stateless society. It was a voluntary association and there was no written law or control except by consensus. This is represented by ancient Indian societies in the Buddhist period of Indian history described as Janapadams. These were small stateless societies ruled by equality and consensus. The ancient Harappan civilization was also structured as a stateless anarchic society. The same holds good for the ancient Celtic kingdoms in Wales, Scotland, Basque, Catalonia and Brittany. The concept of anarchic societies is exemplified in the Mandalas in Southeast Asia comprising modern Indonesia, Vietnam, Laos, Cambodia, Myanmar and Thailand. These civilizations were extensions of the South Indian Dravidian civilization which derived from the Harappan civilization. In modern times the anarchic societies were revived in the form of modern Grama Swaraj of Gandhi whose philosophy was basically anarchic. Gandhi was from the area of India where the Harappan civilization thrived in prehistoric times. The same anarchic societies can be seen in Jewish Kibbutz. The Jews, Celts, Dravidians all had a neanderthalic origin. This formed the basis primitive, anarchic Neanderthal communities. The global warming related endosymbiotic archaeal growth results in neoneanderthalisation. The actinidic archaea mediated quantal perception of low level EMF results in cortical atrophy and cerebellar dominance resulting in a cerebellar cognitive affective disorder. The archaea mediated quantal perception by porphyrions results in small bonded Neoneanderthal communities with anarchic forms of organisation. The human civilization owing to global warming and neanderthalisation of the brain regresses to form small tribal anarchic communities in perpetual warfare resulting in the end of nation states. The neoneanderthalic world of anarchy has set in. The matriarchal societies with parthenogenetic female result in the syndrome of castrated male eunuchs and gender equal societies. Anarchy becomes the norm of political life in the world with its attendant catastrophic destructions. The male eunuch syndrome coupled with cerebellar cognitive affective disorder in an anarchic world with tribal identities can produce terrorism, criminality, creativity, aggression, violence, lack of empathy and an autistic tribe. The parthenogenetic Neoneanderthals will eventually become extinct due to lack of gene diversity in the population.

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Climate change and exposure to low level internet EMF fields can induce HO1 activity and increased porphyrin synthesis. The porphyrins can form porphyrions which act as a template for the formation of RNA viroids, DNA viroids and isoprenoids by abiogenesis. They are symbiose to form actinidic archaea and RNA viroids. This results in endosymbiotic archaeal mediated stem cell transformation. The endosymbiotic archaea can induce toll receptor activation and activate HIF alpha resulting in stem cell metabolonomics with increased glycolysis and mitochondrial dysfunction. The endosymbiotic archaea can induce aldose reductase and fructose metabolism producing frucotsemia, lipid synthesis, mucopolysaccharidosis, porphyrias and hibernation/zombie syndromes. The increased glycolysis and Warburg phenotype can activate the immune system. The stem cells meiotic programs get activated and results in the formation of germ cells and parthenogenesis. Thus climate change and internet exposure results in a reproductive change to predominant asexual reproduction and parthenogenesis. This results in an asexual male eunuch phenotype. This results in gender equality and female dominance. The male population becomes dispossessed and is peripheral to the functions of society. This creates a society of male eunuchs and matriarchs. The society regresses to the matriarchal regime with widespread social consequences. The porphyrions and actinidic magnetotactic archaea can perceive low level EMF fields producing frontal cortical atrophy and cerebellar dominance. This produces the cerebellar cognitive affective disorder on an epidemic scale. The cerebellum is the site of impulsive behaviour, aggression, criminality, extrasensory perception, spiritual phenomena and dreams as well as trance. This results in an impulsive society without any logic or reason producing lawlessness and anarchy. This produces an anarchic world of Neoneanderthals with small social tribal groups and fall of organized civil society and nation states. The consequence of these are widespread lawlessness, wars, criminality, terrorism, sexual promisquity, demise of the nuclear family, alternate sexuality, communal living and breakdown of social structures of the homo sapien society. The anarchic eunuchoid world of Neoneanderthals opens up. Thus the climate change and internet produces a sexual change, anarchic social change, and reproductive change. The Neanderthals live in a dream world of imagination and paranormal phenomena modulated by cerebellar hypertrophy and function. This produces a spiritual world of trances and religiosity. The Neanderthal brain activates the default network in the frontoparietal lobe producing day-dreaming, creative visualization, fantasy phenomena, depersonalisation and altered consciousness. The increased tryptophan catabolism produces kynurenine which blocks the NMDA receptor producing a ketamine or phencyclidine schizophrenic psychosis on an epidemic scale. The increased kynurenine can

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also block the alpha 7 nicotinic acetyl choline receptor, decreased serotoninergic activity and activates dopaminergic receptor. The tryptophan catabolic pathway also produces hallucinogenic alkaloids like strychnine, mescaline and LSD. This contributes to day-dreaming shamanic states in Neoneanderthals. This contributes to creativity, autism, schizophrenia, lack of social contacts, small tribal populations and a dream world in Neanderthal society. The increased porphyrions produces quantal perception and a dream world. The Neanderthals form small social groups and lack social contacts with out of kin population producing small autistic tribes. The Neoneanderthals and homo sapiens can be differentiated by the following phenomena of unconscious versus conscious, religion versus science, magic versus logic, dream versus waking and psychic versus material. The Neoneanderthals have great paranormal ability and the society was more religious and spiritual. They created cities of dreams which were classically psychopathic, magical and dream-like. The Neanderthal culture of magic, culture and spirit was different from that of homo sapiens. The myths, folklores and religiosity are derived from the Neanderthals. The worship of serpents as symbols of God and use of crystals and minerals as exemplified by Siddha forms of medicine are neanderthalic. They painted the skin and faces creating extensive tattoos, wore ornaments and were extraordinarily ceremonial and ritualistic. They created dance as form of worship as comparable with the concept of Shiva as a celestial dancer. The neanderthalic tribes were nocturnal and were aware of the star constellations of big bear, little bear and draco. The Neanderthals were nocturnal tribe because of photosensitivity due to porphyrias which made them favour the night time to the day. The neanderthalic Gods were from the outer cosmos and the civilization was seeded by intergalactic contacts mediated by cometary and asteroidal impacts. The comets and asteroids carried magnetotactic actinidic archaea which formed colonies transforming to homo neanderthalis. The Neanderthals were religious and have funeral ceremonies and believed in after life. The Dravidian civilization, Uluzzian and Chatelperonean civilization as well as the Basque and Catalan were neanderthalic. They were a civilization of dreams, rituals, dances, religiosity and trances owing to an epidemic CCAS. The Neanderthals were nocturnal tribe who worshipped the moon goddess were matriarchal food gathering and women governed society. The homo sapiens were the sun worshipping patriarchal hunter warriors and male governed society. The females were mere adjuncts. The Neanderthal society was religious, ritualistic, symbolic with a cosmological approach to the world. It was a society of creative imagination. The society was predominantly parthenogenetic and asexual. The tantric form of spirituality and the sense of spiritual awakening indicated by the Kundalini showed the

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asexual nature and eunuchoid characteristic of the Neanderthal tribe. The cerebellum is the site of creative visualization, paranormal and dreams. The Neanderthal brain was cerebellar dominant creating trance-like states, day-dreaming, telepathy, psychic healing, poltergeist phenomena and religiosity. It was a high civilization of dreams mediated by the cerebellum. The cerebellum produces an ataxic motor syndrome as well as dysmetria of thought. The dysmetria of thought results in an autistic and schizophrenic tribe of Neanderthals and Neoneanderthals produced by climate change and internet exposure. The cerebellum is the site of common embryonal tumours and archaea induced parthenogenesis is higher in the cerebellum producing cerebellar hypertrophy, cerebellar dominance and cerebellar dysfunction. The archaea induced parthenogenesis produces a cerebellar dominance Neoneanderthal brain and the dream civilization of Neanderthals.

The homo sapiens mind can be characterized by the ego and the homo neanderthalis by id. Homo sapien qualities are sun, fascism, psychosis, logic, science, awake, adult, day, God, male and yang, versus the homo neanderthalis qualities are communism, moon, neurosis, intuition, religion, day-dreaming, child, night, devil, female and ying. The Cro-Magnons were hunters, patriarchal and sun worshipers. The homo neanderthalis were moon worshipers, patriarchal and food gatherers. The homo neanderthalis inhabited Europe and Middle-East. Gooch postulated the double helical concept of the mind as opposed to hemispheric dominance. The double helical mind of Gooch includes the cerebellum which is concerned with dreaming and creativity and the cerebrum concerned with logic. His concept of the sacred life of humans, the double helix of the mind, the cities of dreams, the creations of inner space and the divided self are described extensively in his work. The cerebellum is the site of paranormal and supernatural phenomena and gives rise to creations from the inner space. These are the creations from the inner space mediated by the cerebellum constituted the basis of vampires, troglodytes, demons and asuras. The cerebral cortex is the site of ego and the cerebellum the site of id. The cerebellum becomes dominant owing to archaea and viroid induced embryonal parthenogenesis. The interbreeding of Cro-Magnon with Neanderthals resulted in a burst of spirituality, artistry and creativity. The human behaviour can be explained by the double helical concept of mind. The socialists are neanderthalic and the Cro-Magnon conservatives. The Neanderthals were red-haired with slanting forehead and were worshippers of the moon. Moon worshipping was common in the Fertile Crescent which included Turkey, Egypt, Harappa, Sumeria and Arabia. The basis of these civilizations was lunar. The Neanderthal societies were matriarchal, completely promiscuous and sex

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driven and lead by women. They can be compared with the behaviour of bonobo primates. The Neanderthals were short-statured, left-handed and near-sighted. The Cro-Magnons were taller, long-sighted and right-handed. The Neanderthals had a communal living while the Cro-Magnons were monogamous and pair-bonding. The Neanderthals have a larger cerebellum, pyknic body type, non-athletic body type, left-handedness, less of male pattern baldness, prominent eye brows, recessive chins, were neurotic, and is less of psychosis, more hypnotisable and better night vision. The neanderthalic phenotype can be seen in drop-outs, addicts, alcoholics, unemployed and insomniacs. They lived in a world of day-dreaming and increased sexual activity as well as alternate sexuality. The Neanderthals were religiously organized were seen in south Europe, east Europe among the untouchables while the Cro-Magnons had large civil society and were seen in north Europe, west Europe, Brahmin communities and were taller. The political ideas of the French revolution, the Russian revolution and the Taliban were neanderthalic while that of the Nazis and KKK were Cro-Magnon. The Neanderthals were basically a day-dreaming, lunar society and were represented by the Celts, the witches, the Kabalist, the Rosicrucian and Judaist. The Nazi hatred of Jews and the western hatred of Islam are based on their neanderthalic origin. The homo sapiens on the other hand were worshippers of the sun. The Neanderthals were left-handed and left-leaning while the Cro-Magnons were right-handed and right-leaning. The Neanderthal societies are represented by Nairs, Nagas, Sakas, Scythians, Saxons, Celts, Berbers, Sumerians, Dravidians, Harappans, Etruscans and Egyptians. The moon was worshiped in Egypt, Babylon, India, Sumeria, Assyria, Akkadians and Chaldians. The moon God was called as sin and Thoth. They are the oldest human deities and are represented by Shiva in India. The Egyptian God Isis, the Celtic God Morgana, the Greek God Artemis, Aphrodite and Selene were representative of the lunar God. All the pagan festivals depend upon the lunar cycles. The moon God was worshipped in the Kabbala, the Talmuds, the Ur of Chaldees, Harappa and in all of the Fertile Crescent. The Harappan civilization had Shiva with his crescent symbol representing lunar worship. Soma was the presiding deity of Rig Vedic ceremonies and is represented by moon. The soma is actually a drink of milk, honey, cannabis and other plant extracts which produced a hallucinatory state. The Harappan culture was neanderthalic and lunar centric as also the succeeding Saivite sects of Hinduism like Aghoras and Nagas. The term for mental illness- lunatic came from lunar worship. The Cro-Magnon civilization was the opposite with sun being the dominant and logic being the culture of the society. The wars of history and hatred of civilizations like Jews, Islam and Hindus were based on neanderthalic origin and their lunar worship.

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The Neanderthals evolved by seeding of cometary reptilian genes from outer space. The intergalactic porphyrions, RNA viroids, DNA viroids and template replicating magnetotactic archaea are the basis of cometary genes and seeding of life on earth. The template replication and parthenogenesis are related to evolution of Neanderthals. The intragenomic conflict and interspecies hybridisation produces expression of reptilian genes in human- PDH deficiency, mitochondrial dysfunction, SLOS and porphyria. The parthenogenesis and matriarchy are related as also SLOS, asexuality and alternate sexuality. This produces on-hierarchal anarchic societies. The equality and gender sensitivity are related to the serpent cult of Khylst and Capracoites- Nagas and Asuras- Dravidians and Sumerians- Punts and Egyptians. The mother Goddess, the serpent people and Neanderthals are synonymous. The Dravidians, Celts, Egyptians, Jews, Berbers, Sakas, Nagas, Nairs, Asuras and Neanderthals were parthenogenetic. They consumed a high fat high protein diet- milk and honey, and had persisting adult lactose tolerance. This contributed to the consumption of a ketogenic diet, stem cell metabolonomics and parthenogenesis. Global warming and climate change can lead to archaeal endosymbiosis and neanderthalisation of the species. This leads to interspecies hybridisation and intragenomic conflict contributing to parthenogenesis. Archaea and RNA viroids can induce parthenogenesis. Parthenogenesis can lead to matriarchy and female dominance. Parthenogenesis can produce expression of reptilian genes, porphyrias, extrasensory perception and autistic phenotype. This results in a creative, spiritual and matriarchal population. This has a similarity to an ant and bee colony. They behave like parthenogenetic Neanderthal societies. The reptilian gene expression produces the SLOS phenotype, low cholesterol and lack of sex hormones leading to asexuality and alternate sexuality.

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Parthenogenesis can lead to human disease. Parthenogenetic Somatic pregnancy can lead to cancer. Parthenogenetic embryos behave like autoantigens causing autoimmunity and autoimmune disease. The parthenogenesis and stem cell glycolysis can lead to lymphocyte activation and autoimmune disease. Parthenogenesis in brain can lead to multiple personalities causing schizophrenia and autism. Parthenogenetic embryos in neural tissue can lead to neurodegeneration by starving the host cells. Parthenogenesis leads on to Warburg phenotype. The Warburg phenotype contributes to anaerobic glycolysis, mitochondrial dysfunction and metabolic syndrome. Parthenogenesis can lead to sexual evolution and alternate sexuality. Parthenogenesis will lead to a lack of demand for sexual reproduction. The expression of reptilian genes and SLOS phenotype produces cholesterol depletion and

sex hormone deficiency. This produces an asexual phenotype. Extremes of climate change can produce archaeal symbiosis and parthenogenesis. This results in interspecies hybridisation and intragenomic conflict. This leads to a matrilineal society and female dominance. The status of males is low in matrilineal societies. The Neanderthal societies were female dominant. The interspecies hybridisation and intragenomic conflict leads to archaea and RNA viroid induced parthenogenesis. The reptilian gene expression produces SLOS phenotype, low cholesterol, low sex hormones and asexuality. This results in alternate sexuality, matrilineal societies, female dominance and DEVI syndrome. This contributes to autistic phenotype and neanderthalic autistic tribes.

The climate change induced parthenogenesis is due to mediation by archaea and RNA viroid. This produces matrilineal society, matriarchy and asexual societies. The reptilian gene expression and porphyrias leads to generation of porphyrions and extrasensory perception. Parthenogenesis and mother Goddess cult are related. The porphyrions produces extrasensory quantal perception and a quantal civilization. This leads to creativity and autism. The return of Nagas and Asuras due to climate change mediated archaeal endosymbiosis and parthenogenesis is related. Archaea and viroid can induce parthenogenesis. Archaea and RNA viroid induced mitochondrial dysfunction and upregulated glycolysis resulting in stem cell transformation of somatic cells. Stem cell metabolonomics include anaerobic glycolysis, PDH dysfunction, CoQ 2 mutation and mitochondrial dysfunction. The somatic cells which are stem cell transform in the setting of immune activation and cytokine secretion can get converted to germinal cells – sperm and ova. This can result in fertilisation and parthenogenesis. The porphyrions result from intragenomic conflict/interspecies hybridisation and reptilian gene expression. The archaea can induce the HIF alpha and toll receptor activation resulting in glycolysis, mitochondrial dysfunction and GABA shunt. This also produces porphyrin synthesis and porphyrions. Porphyrins can produce extrasensory perception/quantal perception. Porphyrins can result in quantal perception and a quantal civilization existing in multiverse universes. The actinidic archaea and porphyrions have magnetotactic function resulting in mirror neuron function. This results in an autistic tribe. The cerebral cortex becomes atrophic and the cerebellar cortex dominant producing a cerebellar cognitive affective disorder. Interspecies hybridisation and intragenomic conflict results in archaeal symbiosis and parthenogenesis. There is intragenomic conflict and interspecies hybridisation producing this phenomenon. This results in reptilian gene expression and the shikimic acid pathway activation. This produces increased dopamine

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synthesis. Hyperdopaminergic transmission can produce endemic la tourette disease with motor and vocal tics. The hissing like vocal tics led to the evolution of language.

The Neanderthals consume high fat high protein, ketogenic diet. This resulted in hibernation, fructolysis and fructosemia, lipogenesis and fat deposition, mucopolysaccharide accumulation, parthenogenesis and stem cell metabolism, glycolysis and mitochondrial dysfunction. High fat high protein diet can lead to decreased SCFA, modulated histone acetylation, HERV expression and genomic modulation. Low levels of short chain fatty acids including butyrate consequent to a low fibre diet produces decreased HDAC is related to HERV expression. Reptilian gene expression can lead to homo cystinurias and genomic expression modulation by demethylation. Neanderthalisation of the brain produces extrasensory perception, cortical atrophy, cerebellar dominance and cerebellar cognitive affective disorder (CCAS). The Neanderthal quotient is related to neuroticism, social fear, social avoidance, depression, bipolar disorders and autism. The Neanderthal quotient is related to fear of strangers, aggressive behaviour and social limitation. The NQ is also related to sexual promiscuity, emotional stoicism and fear in social situation. The NQ is also related to anxiety, xenophobia, lack of empathy, compassion. The NQ quotient is related to lack of working memory and consciousness and develop long-term memory. The NQ is related to risky physical, social and sexual behaviour. The NQ is related to small groups of 8-10 numbers. The Neanderthals groups were small. The homo sapien groups numbered 150 and were large. The NQ form alliances within kin groups and family ties were strong. The homo sapiens could form alliances with non-kin groups and large civilizations developed.

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The autistic and schizophrenic phenotype has been attributed as to refrigerated mother of the Neanderthal matriarchal phenotype by Leo Kanner and Bruno Bettelheim. The homo neanderthalis is female dominant matriarchal society. The Neanderthal brain contributes to the cerebellar cognitive affective disorder with a high incidence of autism and schizophrenia. This leads to parental coldness, obsessiveness, social isolation and ritualism. Autistic and schizophrenic neanderthalic mothers give rise to autistic and schizophrenic children. Autism and schizophrenia are disorders of socialization. The mothers of autistic and schizophrenic children are socially withdrawn and dominate their children leading on to what is called as Mahler syndrome or symbiotic psychotic syndrome. This is a syndrome of dedifferentiation and deanimation with the child perceiving itself as an extension of the mother. The Neanderthals have magnetotactic archaea and porphyrion induced quantal perception and the dominant mother is undifferentiated psychologically from the Neanderthal children. The

Neanderthal children of dominant mothers become socially withdrawn and isolated leading to paleologic thinking process contributing to autism and schizophrenia. The Neanderthal brain evolved due to archaeal symbiosis and archaeal cholesterol catabolism leads to decreased levels of cholesterol and bile acids in Neanderthals. The archaea use cholesterol as a energy substrate and have cholesterol oxidase activity. Bile acids can bind to olfactory receptors and can modulate the limbic lobe and human behaviour. Bile acids are involved in social bonding and bile acid deficiency in Neanderthals contributes to the formation of smaller societies and tight family groups. The bile acid deficiency contributes to decreased social bonding in Neanderthals and the genesis of autism and schizophrenia. The family relationships in the matriarchal society are tight creating the empty fortress syndrome.

The porphyrions have a wave-particle existence and can exist in the intergalactic space. They form a template for the formation of abiogenetic isoprenoid organism, DNA viroids, RNA viroids, double helical templates resembling reptiles. The formation of universe depends on abiogenetic magnetotactic archaea related intergalactic magnetic field. The cometary genes derived from intergalactic archaea and viroids by asteroidal impact seeds life in earth. The intergalactic archaea and cometary genes produced the evolution of life on earth. The actinidic archaeal colonies became multicellular and evolved into Neanderthals. The parthenogenetic embryos of Neanderthals have template mediated replication.

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The interspecies hybridisation and intragenomic conflict resulted in archaea and viroid induced parthenogenesis. This produced matriarchy and female dominance. The reptilian gene expression and SLOS phenotype resulted in low cholesterol, sex hormones and asexuality. This produces a culture of sexual equality and alternate sexuality. The porphyrion induced ESP can lead to unified consciousness, equality and oneness. This produces a anarchic and non-hierarchal society. The neanderthalisation of the brain can lead to a cerebellar cognitive affective disorder. The CCAS leads to evolution of evilness and spirituality. The CCAS also results in illogical impulsive acts contributing to terrorism. The extrasensory perception and ataxia due to cerebellar dysfunction can lead to creativity, dance, painting and art.

The interspecies hybridisation and intragenomic conflict can lead to parthenogenesis-archaea and viroid induced. The reptilian gene expression and stem cell metabolism leads to mitochondrial dysfunction, PDH deficiency, glycolysis, fructolysis, fructosemia, lipogenesis, hibernation syndrome, mucopolysaccharidosis and zombie syndrome. This produces

metabolic syndrome with obesity and diabetes mellitus mimicking reptilian habits. The interspecies hybridisation and intragenomic conflict leads to climate change, archaea and viroid induced parthenogenesis. The reptilian gene expression produces HIF alpha and increased glycolysis immune activation. The somatic parthenogenesis is related to autoimmunity. Reptilian gene expression and digoxin synthesis leads to immune activation. The reptilian genes and HLA expression are related. The HLA genes are derived from Neanderthals. The archaea and RNA viroid induced toll receptor activation can lead to immune activation. This produces autoimmune disease. The interspecies hybridisation and intragenomic conflict can result in parthenogenesis, archaea and RNA viroid induced. The reptilian gene expression leads to porphyrias. The porphyrions are related to quantal perception. The Neanderthals are retroviral resistant with less of HERV expression leading to cortical atrophy and cerebellar dominance contributing to CCAS. The porphyrion induced quantal perception can lead to a quantal civilization. This results from neanderthalisation of the brain, decreased cerebral cortex. The interspecies hybridisation and intragenomic conflict as said before can lead to parthenogenesis- archaea and viroid induced. The reptilian gene expression leads to porphyria and porphyrion generation producing ESP and quantal perception. The mirror neurons function is related to archaeal porphyrions. This leads to quantal perception and civilization as well as biological reincarnation.

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Table 1. Parthenogenetic history in female pregnancies

Group	Percentage
Matrilineal Nair	11
Non-matrilineal	2

Table 2. Neanderthal quotient

Group	NQ
Matrilineal Nair	High
Non-matrilineal	Low

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CHAPTER 47

THE OUT OF PENINSULAR INDIA ORIGIN OF LIFE - A AQUATIC WOMAN ANCESTOR OF ALL MANKIND - THE PRIMITIVE ALL FEMALE WORLD - THE WORLD OF THE MOTHER GODDESS AND THE ORIGIN OF DRAVIDIAN MATRIARCHY

The female dominant model of human evolution raises the question of who evolved first- the male or the female. The original fossils of human species are predominantly female and the male fossils evolved after billions of years. The original human species would have been a cluster of female bipedals in swampy waters feeding on tubers of water lilies and lotus as well as fish, mussels and shell fish. The watery origin of bipedalism and human species points to a dominant role for woman in human evolution. The body anatomy of the females with pendular mammary glands and rounded glutei are for floating and buoyancy and not for sexual attraction. This produces a gynocentric approach to evolution as against an androcentric approach. Evolution was basically meant for protection and rearing of children. Humans have evolved in swamps, backwaters and sea and are not biologically or socially inferior to men. The women can reproduce by parthenogenesis like lower animals. Therefore it is natural for the female of the species to evolve first. The sexual relationship in such female only societies in primodial times was lesbian. The evolution of males occurred at a later date. The next stage of human evolution has been postulated to be interspecies hybrids. This would have generated interspecies hybrids of males and females. Interspecies hybrid would have led to the development of male and female of the species. The water mammals like cows, bulls, pigs, elephants, rhinoceros, turtles, crocodiles, water snakes and giant tortoises would have contributed to the generation of interspecies hybrids. This would have generated a population of both male and female bipedals in the swamps with different type of sexual interactions- heterosexual, bisexual, homo sexual and lesbian. Genetic diversity is required for a species to survive. Thus heterosexuality as a mode of sexual behaviour would have become acceptable to society as such. This points to interspecies hybridization playing an important role in evolution. This points to a gynocentric aquatic mode of evolution and would have contributed to the ideas of Mother Goddess in civilization.

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Somatic parthenogenesis occurs due to transformation of the somatic cell to pluripotent stem cell which can develop to parthenogenetic embryos. This results from hybridisation between two different species homo neanderthalis and homo sapiens. This

interspecies hybridisation produces intragenomic conflict and parthenogenesis. Parthenogenesis can be induced by stress of climate change and by endosymbiotic archaea and RNA viroids. The intragenomic conflict consequent to interspecies hybridisation results in upregulation of the tryptophan catabolic pathways produces increased amount of kynurenine, immunosuppression and immune escape of the parthenogenetic embryos. The interspecies hybridisation and intragenomic conflict results in reptilian gene expression and digoxin synthesis. The digoxin produced by endosymbiotic archaea results in upregulated tryptophan transport and catabolism over tyrosine. The increased kynurenine catabolism in Neanderthals results in immune escape and endosymbiotic archaeal growth. The endosymbiotic archaeal growth results in neanderthalisation of the species. The neanderthalisation of the species and interspecies hybridisation and intragenomic conflict results in porphyrias and increased porphyrion mediated low level EMF perception, cortical atrophy and cerebellar dominance. This produces a cerebellar cognitive affective disorder with autistic features, impulsivity, aggressiveness, power lust, increased sexual desire, alternate sexuality, criminality, cannibalistic features and anarchic social mores. The Neanderthal species owing to endosymbiotic archaeal growth and stem cell transformation had an asexual mode of reproduction with parthenogenesis. This results in female dominance, Amazonian syndrome, a culture of male eunuchs and matriarchy. The interspecies hybridisation and intragenomic conflict results in a SLOS phenotype with decreased cholesterol synthesis. This produces decreased sex hormone synthesis resulting in asexuality and alternate sexuality. The Neanderthals were matriarchal and worship the mother Goddess. The reptilian gene expression and SLOS phenotype results in generation of serpentine features. The genes for the primitive reptilian brain complex get expressed with aggression, violence, impulsivity, cannibalism, anarchy, immorality, lust for power and dominance. The SLOS phenotype results in development of primitive features like the development of tail or cauda, cleft chin, prominent thin long teeth and canines, freckles, scales in the skin and syndactly or webbing. The digoxin synthesis and decreased tyrosine transport results in reduced dopamine and melanin synthesis contributing to a tribe of anarchic white gods. The reptilian gene expression and digoxin synthesis leads to sympathetic hyperactivity and ability to regulate the body temperature in alignment with environmental temperature producing cold bloodedness. The archaea induced fructolysis and fructosemia owing to induction of aldose reductase results in increased lipid and mucopolysaccharide synthesis and hibernation syndrome contributing to obesity and increased subcutaneous fat like reptiles. The evolution of cervical rib, the widow's peak in the eye brows and prominent second toe in the feet is due

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to increase of recessive traits consequent to inbreeding. The inbreeding results from the autistic phenotype and reduced social contact and social withdrawal. This autistic phenotype with the inbreeding and parthenogenesis leads to decreased genetic diversity and extinction of Neanderthals. The Neanderthals have increased subcutaneous fat, scaly skin which is partly due to albinism and UV exposure as well as due to cholesterol synthetic defect, increased salt secreting eccrine sweat glands and dominant tryptophan pathway and serotonin synthesis producing pineal gland or third eye. The increased tryptophan catabolism produces an epidemic oshtoran syndrome. The neanderthalisation produces an epidemic anarchic syndrome. The neanderthalisation also produces the syndrome of male eunuch and matrilineality. The Neanderthals were mostly parthenogenetic. The cerebellar cognitive affective disorder and actinidic archaeal magnetite and porphyrion induced quantal perception resulted in equality and universality. The primitive Neanderthal tribes are represented by the Saxons, Sakas, Basque, Etruscans, Dravidian races, the Celts and Berbers. The most dominant Neanderthal tribe is the Anglo-Saxons which created an equal society with a universal culture which is American, a universal language which is English, a universal monetary system represented by the dollar and the unification of all ethnicity in the American dream of tolerance and inclusiveness. The Neanderthals had serpentine features and Neanderthal cultures all over the world is represented by serpent worships as seen in Sumeria, the Dravidians of South India, Thoth of Egypt and in Mexico. The Naga tribes and Naga lore of South India represents the Neanderthal culture. The modern version of serpent worship is seen in the symbol of medical profession, the representation of the dollar and in free masonry. Free masonry of the Anglo-Saxons incorporates all religions and is the first universal religion and is neanderthalic. The neanderthalic populations were represented by particular blood groups, the universal donor O Rh –ve and AB Rh –ve, the universal receiver.

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The Neanderthal phenotype gives clues as to the origin of the humans. The Naga tribes of South India were hypothesized to originate in the ancient Lemurian landmass which got broken up by tsunamis and earthquakes. The remnants of the Neanderthal phenotype are seen in the Australian aboriginals, the New Zealandian Maoris, the Dravidian Tamils and Nairs. These societies are predominantly matriarchal and serpent worshipping. The homo neanderthalic possibly arose in the Lemurian oceanic landmass supporting the theory of the aquatic ape origin of humans. The accepted theory of human origin postulates the origin of humans from primates in the African savannahs. Several points give clue to an origin of the human species in water. The neanderthalic behaviour can be compared to the behaviour of

the bonobo monkeys or lemurs seen in the ancient Lemurian continent. The homo neanderthalis would have originated from the bonobo monkeys in the Lemurian backwaters communicating with the sea. The bonobo monkeys owing to shortage of food would have started foraging the backwaters and sea for fish and tubers of water lilies. The fish contains essential fatty acids like docosa hexaenoic acid and tubers contain plenty of carbohydrates. The brain is exclusively dependent on carbohydrates and ketone bodies for energy. The essential fatty acids increase the brain growth. The brain growth in humans is called encephalisation which is more than in primates and is equivalent to sea mammals like the dolphin and whales. The bonobo monkeys would have waded into water and stood in water generating the phenomenon of bipedalism. This would have freed their hands to catch fish and break shellfish to generate food. This would also have freed the hands to collect and eat the tubers of water plants. The human species lack hair unlike the primates but like the aquatic mammals. The human species have increased subcutaneous fat like aquatic mammals and unlike primates. The human beings have got eccrine sweat glands and tear glands useful in a watery environment. The human trachea is placed down in the neck unlike that in primates where it is more nasal. The human language points to an aquatic origin for human species. For the human language to develop you have to consciously control your breathing which does not exist in primates but in humans and aquatic mammals. The humans have the diving reflex. The smooth skin with sparse hair and thick subcutaneous fat for insulation points to an aquatic origin for humans like aquatic whales and dolphins. The webbed feet and hands also point to an aquatic origin. The sebaceous glands with its greasy secretion point to water-proofing in humans and aquatic origins. The homo neanderthalis unlike the homo sapiens is more of an aquatic swimming type. The homo neanderthalis had longer lungs and increased respiratory capacity which helped them to dive into water and float in water. The homo neanderthalis owing to their SLOS phenotype and albinism had vitamin D deficiency. Vitamin D is synthesized from cholesterol. The homo neanderthalic bone was thin as compared to the darkened vitamin D rich homo sapiens. The long lungs and the thin bone helped the homo neanderthalis to float in water. The origin of paranasal sinuses were for the human species to hold its head above water. The human beings sexual behaviour is like aquatic mammals and unlike primates with front to front population. All these differences point to an aquatic origin for the human beings or an aquatic ape hypothesis. The homo neanderthalis originated from the bonobo Lemurian monkeys which waded into water to search for food. The bonobo monkeys sexual behaviour and promiscuousness and alternate sexuality are comparable to homo neanderthalis. The homo neanderthalis arises owing to

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archaeal endosymbiosis. The waters of the ocean and backwaters are rich in marine archaea which are capable for acetogenesis and methanogenesis. The backwaters and sea of the South Asian peninsular landmass is rich in actinides, the bathyarchaeota. They are capable of acetogenesis and are a source of organic carbon. The actinides would have formed scaffolds for the formation of complex life molecules like RNA, DNA, protein, isoprenoids and complex carbohydrates. This would have produces RNA viroids, DNA viroids, isoprenoid organism and prions on actinidic surfaces which would have symbiosed to form archaea and eventual multicellular organisms. The multicellular organisms arising on abiogenetic actinidic surfaces in the backwater-ocean connections seen in Southern peninsular India which broke away from the Lemurian landmass would have evolved into eukaryotes, prokaryotes, multicellular organisms and symbiotic plants/animals. The bonobo Lemurian monkeys would have evolved into homo neanderthalis by archaeal endosymbiosis in the actinidic shores of backwaters, lakes and oceans of peninsular India. The remnants of homo neanderthalis is seen in Australian Aboriginals, Maoris and Dravidians which are all matriarchal and serpent worshipers. The aquatic ape and homo neanderthalis would have evolved in the actinidic sand shores of backwaters and lakes of Lemuria and peninsular India. The Dravidian communities are matriarchal and female dominant. There is a high degree of consanguinity and inbreeding in the Dravidian matrilineal communities. Parthenogenesis would have been dominant in such communities with matriarchy producing syndromes of the male eunuchs and oshtoran syndromes. The homo neanderthalis ate a carnivorous diet. The teeth were longer compared to homo sapiens and the canines were prominent comparable to fangs of snakes. The cows and bulls were domesticated by the homo neanderthalis which were originally hunters and warriors hunting on mammoths. The domestication of cows and bulls resulted in a high consumption of milk and meat including beef. This resulted in the generation of a lactose tolerant adult population. The gene for lactose tolerance arose 12,000 years ago. The relationship between the cows and Neanderthals could be described as parasitic obligate symbiosis. The origin of cow worship and bull worship in peninsular Indian religions can be related to it. The increased consumption of a carnivorous diet of milk and meat resulted in increased tryptophan intake and catabolism generating more of kynurenines producing immune suppression and immune escape required for parthenogenesis. The immune suppression also produced cold bloodedness of Neanderthals for survival in the cold watery climate. The elements of this culture are still seen in the matriarchal Dravidian communities of peninsular India. The actinidic sea shores and backwater shores of peninsular India is where the homo neanderthalis or the aquatic ape originated. The culture of the

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Dravidian peninsula is matriarchal and the religious traditions still continue with serpent worshipping culture. This can be called as the mermaid culture. The aquatic ape theory finds a echoes in the culture of peninsular India. There were monkey kingdoms with aquatic apes building even land bridges in the sea as noted by the Ramayana epic. The myth of Hanuman and his army of warrior primates or aquatic apes is pertinent in this context. The warrior aquatic apes were supposed to have built the land bridge between Sri Lanka and peninsular India. The warrior aquatic apes had kingdoms governed by kings like Bali and Sugreeva. The primate warriors were intelligent and could move about in the ocean and mangrove swamps and behaved like aquatic apes. The homo neanderthalis and human species would have originated in the backwaters of the southern tip of India. There have been discoveries of Paleolithic sites in Kerala especially in northern and central Kerala. This points to a **out of South India** origin of homo neanderthalis and human species.

The human hairlessness, thick subcutaneous fat, webs in the feet and toes, shape of the nostril all point to a watery origin for the human race in mangrove swamps, backwaters and seas. The presence of diving reflex in humans, sweating, tearing, descended human larynx in the neck, hair tract patterns, the presence of hymen and vernix caseosa in babies like seals point to a watery origin for humans. The reproductive behaviour of humans with front-to-front population like aquatic mammals points to the watery origin for humans. The great apes would have come down from the trees and went through an aquaboreal phase where it waded through swamps feeding on molluscs, fruits and fish producing bipedalism. The need to excrete large amount of salt in sea or brackish water leads to the origin of tears and eccrine sweat glands. The human nose is protruded unlike that of primates to protect it from water. The human hairlessness, thick subcutaneous fat and sweating point to the watery origin for humans and bipedalism. The encephalisation of the brain was due to the large intake of omega-3 and omega-6 fatty acids from fish. The human jaw is short with short teeth unlike Chimpanzees pointing to eating of marine food. All naked mammals are aquatic like the dolphin, the manatee, elephant, pig and rhinoceros. The human beings are the only naked apes. The increased subcutaneous fat or blubber in human babies and vernix caseosa of babies point to a watery origin for human species. The human beings have the lacrimal glands and sweat glands to excrete salt in a sea environment. The human babies are plump with 16 percent body fat and the human milk contains 25 percent fat. The babies roll over on their body and float in water with their nose in air. The fact that human babies can swim, points to a watery origin for the human species. The Chimpanzees' hand is light and strong to hang

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from trees. The human babies hand is too heavy and weak and can grasp on to the hair of the mother while swimming in water. The human babies have developed the grasp response for this type of evolution. The human species female has long oily sebum coated scalp hair. The infant chimps have got a strong neck which is kept steady. The human baby attains neck steadiness at six months, but if the baby is placed in water the neck becomes strong. The human speech arose due to the conscious control of respiration which the chimp cannot. The speech also owes its origin to the position of the larynx in the neck. The pincer grip of humans is developed to get meat out of shell fish and mussels which is called as precision grip. This theory was put forward by Elaine Morgan. The backwaters contain water lilies and tubers whose roots were consumed by the primitive humans along with fish, mussels, snails and shell fish. The water lily and lotus roots and leaves contain alkaloids like nupharine and aporphine which are psychoactive and gives rise to the dream state of Neanderthals. The lotus and water lilies are associated with creation myths like that of the Sun God Ra emerging from the lotus in primordial waters and the Brahma the creator seated on the lotus. The homo neanderthalis emerged first in the Lemurian landmass which was more like a big island susceptible to breakage to independent landmasses owing to widespread tsunamis in the region. This would have lead to inbreeding in the Neanderthals leading on to loss of genetic diversity and expression of reptilian genes. This would have also contributed to the eventual extinction of Neanderthals. The aquatic ape would have arose as homo neanderthalis in the Lemurian landmass and its breakaway regions like the backwaters linked to the sea regions of Kerala with actinidic sands. This is indicated by the persistence of matrilineal society in the Dravidians of Kerala and the detection of endosymbiotic archaea in the blood of Kerala population. The psychometric neanderthalic quotient is high in the population of Kerala with a high incidence of autism. Matrilineality and consanguinity is common among the Dravidian Nair population of Kerala. The Dravidians tend to have a Neanderthal phenotype. The Dravidian Nairs are postulated to have a Scythian origin. Serpent worship, serpent music and serpent dances are common in Kerala. The communities in Kerala are mostly carnivorous and consume beef. The culture in Kerala is more tolerant and Keralites migrate all over the world and mix with different societies. Tolerance and inclusiveness is a feature of NQ quotient. Serpent temples are widespread in Kerala. Kerala has got a higher incidence of Neanderthal genomic sequences related diseases like autism, schizophrenia, ADHD, addictions, metabolic syndrome, autoimmune disease and cancer. It is tempting to locate the origin of the upright aquatic ape in the extended backwaters and lakes of Kerala with its connections to the sea and its actinidic sand rich shores. The backwaters are rich in fresh fish and mussels and water

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lilies and lotuses giving tubers and roots. The homo neanderthalis evolved from archaeal endosymbiosis and marine archaea are dominant in the seas of the Indian ocean and backwaters of Kerala. Serpent worship is a dominant theme in the Dravidian Nair culture and Serpent God Anantha is the dominant deity. This tempts us to speculate on the origin of bipedalism, human species and homo neanderthalis in Kerala. The homo neanderthalis and human species would have originated in the backwaters of the southern tip of India, Kerala. There have been discoveries of Paleolithic sites in Kerala especially in northern and central Kerala. This points to a out of South India origin of homo neanderthalis and human species.

The origin of the aquatic ape points to the dominant role for the female of the species in human evolution. Human evolutionary theories have focused on the hunter gatherer and tool maker males. The watery origin of bipedalism and human species points to a dominant role for woman in human evolution. The body anatomy of the females with pendular mammary glands and rounded glutei are for floating and buoyancy and not for sexual attraction. This produces a gynocentric approach to evolution as against an androcentric approach. Evolution was basically meant for protection and rearing of children. Humans have evolved in swamps, backwaters and sea and are not biologically or socially inferior to men. The homo neanderthalis have got features unlike that of chimpanzees. The social patterns of homo neanderthalis can be compared to the bonobo monkeys. The bonobo monkey society is female centered and egalitarian. Sex is a part of social relationship and serves as a substitute for aggression. The bonobo monkeys have different types of sexuality heterosexual, and male to male and female to female. The frequency of sexual interaction is more but the reproductive rate of bonobo monkeys is the same as chimpanzees. The chimpanzees evolved in the open dry savannah while the bonobo monkeys still lived in trees and hanged down from trees. The tree habitat of the bonobo monkeys lead them to an evolutionary form of life where they can hang from mangrove trees in swamps and eventually wade in water. The bonobo monkeys are pigmy monkeys with male weighing 43 kg and female 33 kg. They are omnivorous and eat fruits, small amount of vertebrates and invertebrates. They have imaginative plays and have sex in missionary positions. They have wide variety of sexuality and group behaviour. Sex was a means of social relationships. The female bonobos bonded among themselves and led the community. The male bonobo is attached to his mother and depends on her for protection throughout life. The bonobo society can be compared to a matriarchal female dominant Neanderthal society. The homo neanderthalis and human species would have originated in the backwaters of the southern tip of India. This points to a

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out of South India origin of homo neanderthalis and human species. The society in Kerala is predominantly matriarchal and female dominant. This provides anthropological evidence for this hypothesis.

The female dominant model of human evolution raises the question of who evolved first- the male or the female. The original fossils of human species are predominantly female and the male fossils evolved after billions of years. The original human species would have been a cluster of female bipedals in swampy waters feeding on tubers of water lilies and lotus as well as fish, mussels and shell fish. The women can reproduce by parthenogenesis like lower animals. Therefore it is natural for the female of the species to evolve first. The sexual relationship in such female only societies in primodial times was lesbian. The evolution of males occurred at a later date. The macho model of human evolution with male hunter and male toolmaker and a female accomplice evolving together is highly unlikely. The next stage of human evolution has been postulated to be interspecies hybrids. This was put forward by Eugene McCarthy. McCarthy pointed to several features of men of humans similar to pigs. Pig organs can be transplanted to humans without rejection. The pigs like humans are hairless, have thick layer of subcutaneous fat, protruding nose and heavy eye lashes. The pig genetic sequence contains similar SINE element ALU as humans. The phenomenon of crossing the species barrier is represented by the generation of the swine flu epidemic in humans. The early bipedal female only human species would have generated human pig interspecies hybrids. This would have generated interspecies hybrids of males and females. The male sexual organ corresponds to the tail of mammals. Similarly sex organs of species like snakes correspond to limb buds. The human embryo in its various stages of development can be compared to fishes, amphibians and lower animals. Interspecies hybrid would have led to the development of male and female of the species. The water mammals like cows, bulls, pigs, elephants, rhinoceros, turtles, crocodiles, water snakes and giant tortoises would have contributed to the generation of interspecies hybrids. This would have generated a population of both male and female bipedals in the swamps with different type of sexual interactions- heterosexual, bisexual, homo sexual and lesbian. Genetic diversity is required for a species to survive. Thus heterosexuality as a mode of sexual behaviour would have become acceptable to society as such. Bacterial and archaeal conjugation with human cells have been described. Chimeras of humans and animals have been produced in labs. Interspecies hybrids have been generated in human labs and populations have been produced. Interspecies hybrids include the dzo between yak and cattle, zubron between cow and bison, cama between camel and

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illama, yakulo between yak and buffalo, sheep-goat and mules. This exemplified by the Plant of the Apes. The interspecies hybrids would have been protected from pre-zygotic and post-zygotic isolation and destruction by the phenomena of immunosuppression and immune escape mediated by tryptophan catabolite kynurenine. A fish diet in swampy waters is rich in tryptophan. The Hindu myth of creation of Matsya the fish, Koorma the tortoise, Varaha the boar and Narasimha the lion point to the generation of interspecies hybrids as the main lynch point of evolution. The generation of human brain structure also depends upon interspecies hybridisation. The reptilian complex of the brain is dominant in Neanderthals. The reptilian complex is seen in amniotes which include mammals, reptiles and birds. The reptilian complex of the reptilian brain includes the basal ganglia, the brain stem and cerebellum. This forms the basis of the cerebellar cognitive affective disorder in Neanderthals. The reptilian brain is the site of imagination, intuition, instinct, compulsivity and dreams. It communicates by symbols and archetypes. It is the site of obsessive compulsive disorder, superstition, ritualism, slavishness and conformation to all way of doing things. It is the site of territoriality, aggression, racism, violence and hypersexuality. The reptilian complex is dominant in amphibians, fishes and reptiles. The Neanderthal brain has got cerebral cortical atrophy and cerebellar dominance. The reptilian brain and reptilian genes are dominant in Neanderthals pointing to interspecies hybridisation of the first evolving Neanderthal females and matrilineal female only Neanderthal society. The interspecies hybrids are signified by the importance of even toed ungulates like pig and cattle in human culture and religion. The even toed ungulates include cattle, pig, deer, camel, sheep, goat and hippopotamus. The odd toed ungulates include rhinoceros and horses. The aquatic cetaceans like whales, dolphins and purpoises evolved from even toed ungulates. Dolphins can communicate with humans. The aquatic cetaceans and even toed ungulates together form a family called cetardiodactyla. The even toed ungulates form large social groups with hierarchy, harem groups and bachelor groups. They mark their territory through glandular secretions. The ungulates can swim and whales and dolphins can gallop in water. The pig antigens have great similarity with human antigens and pig organs can be xenotransplanted into humans. The rejection is due to the presence of retrovirus in the pigs which infects humans. The targeted deletion of retrovirus related DNA from pigs makes pig a valuable source for organ transplantation. The retroviral deleted pig has been cloned and developed into embryos and implanted into sows. The pigs serve as a reservoir for human organ transplant. Hog organs can be transplanted to humans if immunized against human serum. Horse serum is used to develop tetanus antibodies and snake anti-venom. The consumption of beef leads to the development of prion disease in

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humans. Porcine insulin can be injected into humans and porcine heart valves can be transplanted to humans. Cow products like milk, dung and urine are used as human medicines. Human stem cells injected into pig embryos have resulted in the development of human pig chimeras. This human pig chimera can be used for organ transplantation. The development of human-ungulate chimera embryos points to the importance of interspecies hybridization in human evolution. This is signified by the worship of cow as Kamadhenu or Mother Goddess in Hindu culture, the worship of Varaha, the boar as one of the avatars of Vishnu and the religious relationship between Satan and pigs in semitic religions. The Hindu star signs in religion and astrology have a figurative animal representation. This points to interspecies hybridization playing an important role in evolution.

The aquatic ape evolved from bonobo monkeys into homo neanderthalis in the brackish back waters of the peninsular India. The Neanderthals evolved by archaeal endosymbiosis. The archaea can oxidize cholesterol and ammonia for its energetics. The archaea evolved in hydrothermal vents in the ocean and ammonia was formed from nitrogen with iron sulphide as catalyst. Liquid ammonia can replace water as the solvent of life. Amidation can generate amides which can form polypeptides. Liquid ammonia can replace water in DNA and RNA. The primitive archaea obtained energy by ammonia oxidation. The origin of life in other planets and galaxies would have also used ammonia as a solvent. The initial primitive organism would have been an isoprenoid organism. Acetyl CoA can form on actinidic surfaces by abiogenetic mechanisms and generate isoprenoidal compounds like cholesterol and ubiquinone. Cholesterol oxidation using actinide catalyst can generate pyruvate consequent to ring oxidation. The pyruvate by transamination can generate glutamate which can be dehydrogenated to produce ammonia. Ammonia oxidation can subserve archaeal energetics. Ammonia can combine with carbon dioxide to generate urea which serves as a storage form of ammonia. Urea synthesis has been demonstrated in the Neanderthal brain and to some extent in homo sapien brain and is related to neurodegenerative disorders. The saltiness of blood points to an origin of life in water especially brackish water of backwaters. The brackish waters of lakes communicating with sea can generate organic molecules. The lakes adjacent to volcanoes can generate wet-dry cycles which can lead to abiogenesis. Brackish lakes adjacent to volcanoes can be seen in the ancient Lemurian continent in the Indian ocean of which peninsular India is a part of. The most primitive protocell would have been a droplet capable of division and replication. This forms the basis of the membrane first theory of origin of life. Lipid droplets formed of

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isoprenoids would have been the primitive protocell or isoprenoid organism. The incorporation of ubiquinone would have permitted a primitive electron transport chain and ATP synthesis. Lipid droplets are primitive cellular organelle seen in human cells. Cell arises as a symbiotic system with the mitochondria being a rickettsia, the cytoskeleton being a spirochaete, the cell envelope an archaea, the peroxisome an acinetobacter aceti and the nucleus a pox virus. The isoprenoid organism would have been the original primitive protoarchaea. The cholesterol would have been oxidized to produce pyruvate and ammonia. Ammonia oxidation would have subserved the lipid droplet archaea energetics. The ubiquinone would have served the purpose of a primitive electron transport chain. The lipid droplet organelle can interact with lysosomes, mitochondria, nucleus and endoplasmic reticulum. The lipid droplet is formed of neutral lipids, triglycerides and steryl esters in the endoplasmic reticulum. The lipid droplet is a cell organelle. The lipid droplets also contain proteins and are storage vesicles preventing them from degradation. The lipid droplets can interact with porphyrions as demonstrated by farnesylation of heme. The porphyrion can get incorporated into the lipid droplet by isoprenylation. The porphyrion can have an electron transport chain function. The porphyrion can serve as a template for the formation of RNA and DNA. Thus lipid droplet porphyrion complexes would have served as an efficient protocell which evolved into eukaryotes, prokaryotes and archaea. The lipid droplet porphyrion complexes can also lead on to evolution of RNA and DNA viruses. The lipid droplets serve as a cell organelle for viral replication as demonstrated by HCV virus. The lipid droplet organelle serves as a platform for virion assembly of several viruses including HCV virus and dengue virus. The lipid droplets are taken up by bacteria like Chlamydia forming bacterial inclusions. The lipid droplet would have been the initial primitive lipid droplet archaea which after complexion with porphyrions would have generated RNA and DNA sequences as well as polypeptides forming more complex archaea. The lipid droplet porphyrion complexes would serve the purpose of abiogenetic archaeal replication with porphyrions serving as template. The lipid droplet porphyrion complexes serve the purpose of generating new RNA and DNA viruses which can get integrated into human genome or stored in lipid droplet organelle. The lipid droplet organelle serves the purpose of viral replication and spread by acting as a platform for this purpose. The lipid droplet can interact with the mitochondria producing induction of uncoupling proteins (UCP) and uncoupling of the electron transport chain. Fatty acids can stimulate UCP proteins. This has been demonstrated in the brown fat mitochondria. The lipid droplet induction of UCP proteins inhibit mitochondrial oxidative phosphorylation and activate glycolysis producing the

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Warburg phenotype. Lipid droplets contain diacyl glycerol (DAG), fatty acyl CoA and ceramide. They can produce insulin resistance. Lipid droplets are associated with fatty acyl CoA synthase, stearyl CoA desaturase and SREBP. Lipid droplets are dominant in stem cells, cancer cells and germ cells and induce their formation. Lipid droplets are seen in cancer cells and lead to refractory cancers as well as chemotherapy resistance. The lipid droplets are associated with histone proteins. Histone proteins when combine with DNA makes it toxic. The lipid droplets store the histone proteins and release them when required for chromatin formation. The lipid droplets are thus involved in histone acetylation and deacetylation by HDAC and HAT enzymes. Lipid droplets thus regulate gene expression. Lipid droplets are seen in associated with nucleus and nucleolus. Lipid droplets are seen in primordial germ cells and parthenogenetic cells and can induce parthenogenesis. The lipid droplet led to the evolution of archaea in brackish waters as well as the eventual evolution of homo neanderthalis. The lipid droplet organelle in homo neanderthalis induces germ cell and stem cell formation and parthenogenesis and asexual reproduction contributing to matriarchy in homo neanderthalis. The lipid droplet organelle is evolutionarily the original protocell and primitive archaea and forms the basis of endosymbiosis and neanderthalisation. The archaea binds to the toll receptor produces mitochondrial dysfunction and inhibition of TCA cycle and resultant activation of the glycolytic pathway for energetics. This produces the metabolic Warburg phenotype in homo neanderthalis. The homo neanderthalis depends upon ketone body oxidation for its energy needs and subsists on ketogenic diet. The consumption of ketogenic diet results in amino acid catabolism and generation of ammonia which can be oxidized by the archaea for its energy needs. The ammonia can combine with carbon dioxide producing urea which can be acted upon by archaeal urease generating ammonia again. The urea can inhibit mitochondrial function and produce protein modulation by carbomylation. It can thus affect the metabolonome. The inhibition of the TCA cycle channels acetyl CoA to the mevalonate pathway synthesizing cholesterol which can be oxidized by the archaea for its energy needs. The cholesterol ring oxidation generates pyruvate which is acted upon by SGPT generating glutamate which is catabolised by glutamate dehydrogenase generating ammonia. The ammonia can be oxidized by the archaea for its energetics. The ammonia can also be converted to urea by the urea cycle for ammonia storage. The urea mediated carbomylation of proteins results in somatic cell dysfunction and resultant takeover of the human cells by endosymbiotic archaea producing a zombie syndrome with the cell machinery taken over for cholesterol synthesis and oxidation as well as ammonia formation and oxidation subserving archaeal energetics. Urea serves as a substrate for ammonia storage. The

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aquatic ape evolved in the brackish backwaters of peninsular India and Kerala. The aquatic ape evolved from the bonobo monkeys and eventually developed into homo neanderthalis. The homo neanderthalis and the aquatic ape had a watery home of salty brackish water and the urea served as a substrate for balancing the salt content of the body fluids against the high salt content of the brackish water. The aquatic ape and the homo neanderthalis fed on fishes, mussels, crabs as well as tubers of water plants and these habits did not need strong males and was carried out by dominantly by females. The archaeal cholesterol catabolism produced low level of sex hormones in the aquatic ape and homo neanderthalis producing an asexual phenotype with alternate sexual behaviours. This colony of asexual phenotypes was matriarchal and female dominant with essentially served by groups of subservient male eunuchs. The high salt content of the body due to a life in brackish waters served to induce parthenogenesis in the dominant female. The urea synthesis from ammonia was also important in the induction of parthenogenesis. Urea can induce female germinal cells to develop into parthenogenetic embryos. Urea can promote transformation as well as preservation of stem cells and germ cells. The endosymbiotic archaea can produce germ cell transformation as well as stem cell transformation and induce parthenogenesis. Parthenogenesis would have been the dominant form of reproduction in the aquatic ape and homo neanderthalis. Urea synthesis can occur in the liver, the skin and brain of homo neanderthalis and to some extent in homo sapiens. The homo neanderthalic brain evolved due to endosymbiotic magnetotactic archaeal endosymbiosis. The magnetotactic archaea and porphyrions can produce increased absorption of low level EMF producing cortical atrophy and cerebellar dominance. This produces the cerebellar cognitive affective disorder homo neanderthalic brain phenotype with its impulsive behaviour, social withdrawal, creativity and autistic as well as schizophrenic phenotypes. The endosymbiotic archaea uses ammonia as an energy substrate and ammonia is stored in urea molecule for use as and when it is required. The urea synthesis in the homo neanderthalic brain is significant in this respect and serves the purpose of endosymbiotic archaeal energetics. The homo neanderthalic brain can be considered as quantal computing magnetotactic archaeal colony. The homo neanderthalic neuronal cells and circuitry are converted to zombie circuits by neuronal and synaptic protein carbomylation by brain urea. Thus the brain urea synthesis is of great importance in the functioning of the magnetotactic archaeal colony dominated zombie brain of homo neanderthalis. The urea synthesis is also important in the adaptation of the aquatic ape and homo neanderthalis to the salty brackish backwaters of Kerala and maintaining balance between sodium content of body fluids and brackish salt water. The urea molecule is also

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important in the generation and preservation of stem cells and germ cells as well as their parthenogenetic induction required for formation of embryos by asexual reproduction. Thus the ammonia oxidation and urea synthesis is crucial in endosymbiotic archaeal energetics which gives life to the zombie scaffold of Neanderthal body and brain, the maintenance of the magnetotactic archaeal colony network which functions as the controlling power in the Neanderthal zombie brain and in the generation of stem cells and germ cells and the induction of parthenogenesis.

Climate induced archaeal endosymbiosis leads to stem cell transformation and germ cell generation leading to parthenogenesis. This leads to mitochondrial dysfunction and glycolytic activation contributing to the Warburg phenotype. Microembryos parasatize various tissues like the brain, heart, liver and lung. The microembryos contain lipid droplets organelle which forms a reservoir for archaeal replication. The Warburg phenotype leads to blockade of pyruvate dehydrogenase and the TCA cycle. The pyruvate gets channelled to GABA shunt pathway generating succinyl CoA. The Warburg phenotype induced increased glycolysis leads to generation of phosphoglycerate, serine and glycine. Glycine can combine with succinyl CoA generating delta amino levulinic acid which forms the basis of porphyrin synthesis. The porphyrins can form a template for formation of the RNA viroids, DNA viroids and prions as well as isoprenoid lipid organisms. All of them symbiose to form archaea by template mediated replication. The archaea contains magnetite and porphyrins which are capable of absorption of low level of EMF. This leads to quantal perception of low level EMF leading to cortical atrophy and cerebellar dominance which characterised the Neanderthal brain. Neanderthals tend to have a cerebellar cognitive affective disorder. The archaeal network in lipid droplets in the brain is capable of intersynaptic transport and functions as a giant magnetotactic archaeal colony in the zombie brain and controls brain functions. The giant neuronal magnetotactic archaeal colony is capable of quantal perception and consciousness. This produces what is called as the zombie syndrome. The Warburg phenotype that is generated by endosymbiotic archaea leads to germ cell and stem cell transformation and parthenogenesis. The parthenogenetic microembryos with its lipid droplet organelle reservoir of archaea forms the substrate of the Neanderthal brain and its magnetite and porphyrion content is capable of quantal perception and consciousness. This can lead to schizophrenic and autistic phenotypes. The parthenogenetic microembryos with its Warburg phenotype studding multiple tissues produce pathogenetic state. The Warburg phenotype can produce insulin resistance and diabetes mellitus as well as vascular thrombosis. The Warburg

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phenotype and parthenogenesis can lead to oncogenesis. The Warburg phenotype and parthenogenetic embryos can lead to autoimmune disease. The Warburg phenotype and increased glycolysis produces immune activation. The Warburg phenotype can lead to increased glycolysis and glyceraldehyde 3-phosphate mediated nuclear cell death and neurodegeneration.

Somatic parthenogenesis is due to climate change. Climate change can produce archaeal endosymbiosis and archaea and archaeal RNA viroid induced parthenogenesis. In response to stress somatic cells can get transformed to stem cells by endosymbiotic archaea. Stem cell metabolonomics- anaerobic glycolysis, PDH dysfunction, CoQ deficiency mitochondrial dysfunction, branched chain keto acid dehydrogenase dysfunction, homo cystinuria and genomic demythelation, porphyrias and reactive oxygen species generation, SLOS (Smith Lemli Opitz) leading to cholesterol depletion, low sex hormones, vitamin D deficiency and bile acid deficiency. Stem cells can undergo endoreduplication, cell fusion and budding and bursting like bacteria producing polyploidy. These polyploidal cells can become parthogenic embryos. The polyploidal cells are stress resistant and genomically unstable. The polyploidal cells are genomically, metabolically and phenotypically different and unstable. They can get converted to different tissues like brain, liver and heart forming somatic embryos. Multiple somatic embryos with polyploidy produces multiple personality disorders- schizophrenia, autism and mood disorder. Multiple somatic embryos with polyploidy are antigenic and can produce an autoimmune disease. Multiple somatic embryos with polyploidy are genomically unstable can produce cancer. Parthogenesis can lead to social changes including matrilineal societies, alternate sexualities and different identities. Multiple somatic embryos with polyploidy are metabolically and genotypically unstable lead to neurodegeneration. Multiple somatic embryos with different metabolic instability can lead to metabolic syndrome. Archaea and RNA viroid induced mitochondrial dysfunction and upregulated glycolysis resulting in stem cell transformation of somatic cells. The somatic cells which are stem cell transform in the setting of immune activation and cytokine secretion can get converted to germinal cells- sperm and ova. This can result in fertilisation and parthenogenesis. Archaeal digoxin can produce intracellular magnesium deficiency and failed mitosis due to spindle dysfunction. This can produce polyploidal cells. The polyploidal cells can assume stem cell functions. The stem cells can mimic germline cells. The meiotic programs of the polyploidal stem cells can get activated generating cleavage embryos, morulas which can get converted to tumour spheroids. The spheroids can get converted to

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blastocyst and post implantation embryos producing oncogenesis. They can also dissemble producing metastasis.

The Neanderthals ate a high protein high fat non-vegetarian diet by hunting and scavenging mammoths and other animals. This resulted in heavy load of tryptophan in the system producing tryptophanuria and tryptophanemia. The meat contains a high level tryptophan and haemoglobin which can induce the enzyme indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase which are both heme enzymes. The Neanderthals ate a low fibre diet resulting in decrease supply of short chain fatty acids especially butyrate from the gut. Butyrate can suppress indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase and a fibre deficient diet in Neanderthals can upregulate the activity of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase resulting in increased catabolism of tryptophan along the kynurenine pathway. Natural substances that are deficient in non-vegetarian diet like brassica alkaloids, curcumin, caffeine, tea and coca can inhibit indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase which becomes over active in Neanderthals producing tryptophan catabolism. The tryptophan is metabolised to formyl kynurenine, hydroxy kynurenine, kynurenic acid, 3-hydroxy anthranilic acid, quinolinic acid and NAD. Kynurenine can bind to AHR receptor producing immunomodulation and immunosuppression. It can produce immune tolerance in case of embyrogenesis, parthenogenesis, autoimmunity, cancer, lipopolysaccharide tolerance and chronic infection. The kynurenine can produce suppression of T-cells and immunity leading to immunotolerance important in the above mentioned states. Thus kynurenine pathway flux can contribute to embryogenesis and parthenogenesis by producing immune tolerance. The tumours can escape immune destruction by suppression of NK-cells and T-cells. Thus tumour metabolism depends upon activation of the tryptophan catabolism along the kynurenine pathway. The kynurenine pathway is activated in lipopolysaccharide tolerance and chronic infections producing immunosuppression and immunotolerance. The archaeal endosymbiosis depends upon immunotolerance and immunosuppression by activating tryptophan catabolism along the kynurenine pathway. The tryptophan catabolism along the kynurenine pathway can also contribute to psychiatric disorders. Kynurenine blocks the NMDA receptor and alpha-7 nicotinic receptor. This results in down regulation of NMDA and cholinergic transmission. Kynurenine can also upregulate dopaminergic transmission. This results in schizophrenia and autism. The tryptophan catabolism along the kynurenine pathway blocks serotonin synthesis from tryptophan contributing to depressive and anxiety disorders. The tryptophan catabolism

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along the kynurenine pathway can result in quinolinic acid synthesis and immune activation resulting in autoimmunity, immune tolerance as well as immune activation. Kynurenine can produce immunosuppression and NMDA blockade while quinolinic acid can produce immune activation and NMDA excitotoxicity. The tryptophan catabolism along the kynurenine pathway can generate quinolinic acid important in neurodegeneration. The tryptophan flux along the kynurenine pathway can generate quinolinic acid which can produce low grade inflammation and insulin resistance causing metabolic syndrome. Thus the flux of tryptophan along the kynurenine pathway can produce autoimmune disease, neurodegeneration, schizophrenia, depression, autism, cancer and metabolic syndrome. The induction of heme enzyme indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can lead to heme depletion and induction of ALA synthase increasing porphyrin synthesis and producing porphyrias. The porphyrins can form self-replicating porphyrions. The porphyrions form a template for the formation of RNA viroid, DNA viroid and isoprenoid organism which can symbiose together to form an endosymbiotic archaea by abiogenesis. The induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase produces kynurenine which can suppress the immune system generating immunotolerance and archaeal endosymbiosis. Thus the tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase results in systemic civilizational disorders in Neanderthal population. The tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can result in immune tolerance and immunosuppression by kynurenine producing archaeal endosymbiosis and neanderthalisation of the species. The tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can result in immunotolerance that can contribute to parthenogenetic embryogenesis or somatic pregnancy in multiple tissues in Neanderthals. The tryptophan load and induction of indoleamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase can produce an autistic schizophrenic tribe of Neanderthals with parthenogenesis and matriarchy.

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The archaeal endosymbiosis produces neanderthalisation of the species. The archaea can activate the enzyme AMPK (Adenosine monophosphate kinase). The Neanderthals consumed a ketogenic non-vegetarian diet rich in fat and protein. The neanderthalic ketogenic diet can induce AMPK activation. The aquatic ape phenotype ate a lot of fish diet and fish fatty acids can produce AMPK activation. The aquatic ape phenotype also ate lots of tubers of backwater plants like lotus and water lilies containing high amount of glucomannan producing AMPK activation. The water plant tubers contain high amount of fibers whose

digestion generates short chain fatty acids like acetate, butyrate producing AMPK activation. Amino acids and fatty acids can induce AMPK activation. AMPK activation can induce by low glucose and oxygen deprivation states of ice age. The Neanderthals had a cerebellar dominant phenotype with increased sympathetic activity producing the impulsive fear, flight, fight phenotype. The catecholamines- epinephrine and norepinephrine and dopamine can produce AMPK activation. The AMPK activation can result in simultaneous mtor activation resulting in dendritic spine pruning defects and an autistic Neanderthal brain. AMPK activation results in simultaneous activation of the HIF alpha and the induction of the Warburg phenotype and stem cell phenotype. AMPK activation can induce UCP proteins uncoupling oxidative phosphorylation leading to mitochondrial dysfunction. AMPK activation leads to increased catabolism and reduced anabolism. AMPK activation results in weight loss. AMPK activation can also lead to increased insulin signaling and IGF activity. The glycolysis, fatty acid oxidation and amino acid oxidation is increased. The protein synthesis is inhibited. The AMPK activation reduces fatty acid, cholesterol and triglyceride synthesis and increases their breakdown. The increased amino acid oxidation results in tryptophan catabolism producing increased amounts of kynurenines which are important in immune escape and parthenogenesis. The AMPK activation resulting in the stem cell phenotype results in generation of germ cells. The AMPK activation can activate the oocyte into development of parthenogenetic embryos. AMPK activation can increase intracellular calcium oscillations, increased intracellular ROS and AMP/ADP ratio resulting in the shock and wave activation of oocyte producing parthenogenesis. The AMPK activation can suppress the immune system producing immune escape and parthenogenetic embryogenesis. AMPK activation can increase the life span of the species and preservation of the Neanderthal phenotype. AMPK activation can produce cardiac protection and neuroprotection. AMPK activation is important in fertility, stem cell transformation and generation of germ cells. AMPK activation can uncouple oxidative phosphorylation as well as produce mitochondrial biogenesis. AMPK activation has a antioxidant effect by inducing NRF 2, superoxide dismutase and UCP. AMPK activation results in reduce generation of free radicals which act as messengers for endogenous retroviral replication. This produces a rigid genome, defective synaptic connectivity and cerebral cortical atrophy. AMPK activation induces glycogenolysis and inhibits glycogenesis. AMPK activation also increases glucose transport. The mitochondrial oxidative phosphorylation is blocked by AMPK activation by induction of UCP proteins. The glucose is converted to fructose by aldose reductase and sorbitol dehydrogenase induced by archaea and enters the fructolytic pathway. This results in

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fructosemia and increased synthesis of lipids and mucopolysaccharides resulting in a hibernation syndrome characteristic of Neanderthal metabolonomics. The AMPK activation also results in inhibition of protein synthesis and increasing autophagy/mitophagy and body renewal increasing the life span of the species. Thus the archaea induced AMPK activation leads to the generation of parthenogenetic species which is female and maternal dominant. AMPK activation occurs in hibernation and Neanderthals have a hibernatory syndrome. 5' AMP can activate AMPK producing hypometabolism and hibernation. The endosymbiotic archaea synthesizes digoxin by cholesterol catabolism. The endosymbiotic archaea uses cholesterol as an energy substrate. Digoxin can produce membrane sodium potassium ATPase inhibition and this can lead to membrane ATP synthesis. Sodium potassium ATPase functions as an ATP synthesizing enzyme in Neanderthals. Low level of EMF can also produce sodium potassium ATPase inhibition and membrane ATP synthesis. The ATP gets acted upon by ectoATPases which converts ATP to 5' AMP which can activate AMPK producing upregulation of catabolic pathways. Cholesterol catabolism can generate bile acids which can uncouple oxidative phosphorylation and regulate mitochondrial function leading to hibernatory metabolonomics. AMPK activation can lead to cholesterol catabolism and further digoxin synthesis. AMPK activation can increase cellular NAD levels producing activation of sirtuin-1. Sirtuin are NAD depended histone deacetylase. Sirtuin-1 activation can produce rejuvenation in the presence of caloric restriction occurring during hibernation. Sirtuin-1 mediates AMPK activation depended modulation of mitochondrial function. Sirtuin activation can induce hibernation and rejuvenation. Sirtuin modulate genes involved DNA repair, inflammation, fat synthesis and storage as well as glucose metabolism. Sirtuin can produce deacetylation and strengthen the carbon backbone of proteins increasing the longevity of proteins. AMPK activation, NAD accumulation, sirtuin activation and HIF alpha activation occur together. This can produce a hibernatory state and immune escape leading to parthenogenesis. The Neanderthals ate a high fat high protein ketogenic diet as well as diet rich in backwater tubers containing dietary fiber. Ketogenic diet, amino acids, caloric restriction, fatty acids and dietary fibre generated short chain fatty acids can induce AMPK activation, NAD accumulation, sirtuin activation and immunosuppression producing immune escape and parthenogenesis. AMPK activation and sirtuin activation can lead onto the Warburg phenotype, stem cell transformation, generation of germ cells and oocyte stimulation resulting in parthenogenesis.

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Neanderthal evolution was determined by archaeal endosymbiosis. The human species evolved into homo neanderthalis by archaeal endosymbiosis. Archaeal endosymbiosis was mediated by the tryptophan catabolic kynurenine pathway. The kynurenines can produce immunosuppression and immune tolerance resulting in archaeal endosymbiosis. The kynurenine pathway results in blockade of the NMDA receptor, cholinergic nicotinic alpha-7 receptor, decrease production of serotonin and increase dopaminergic transmission. This produces an autistic, schizophrenic Neanderthal tribe with less of frontal executive function and more of cerebellar dominance affective impulsive type behaviour. The induction of indolamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase led to channelling of tryptophan catabolism along the kynurenine pathway. The Neanderthals ate a high protein non-vegetarian tryptophan diet leading to an induction of tryptophan catabolism. The Neanderthal diet was deficient in dietary fibre and fibre digestion generated short chain fatty acids especially butyrate resulting in increasing indolamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase activity and more of tryptophan catabolism. The kynurenine pathway results in generation of quinolinic acid which can produce chronic immune activation and insulin resistance. Quinolinic acid is also involved in neurodegeneration. The kynurenine induced immune cell as well as NK-cell suppression can result in evolution of cancer. The archaeal endosymbiosis generated by kynurenine induced immunotolerance can lead on to cancer, autoimmune disease, metabolic syndrome, neurodegeneration, schizophrenia and autism by generation of archaeal cholesterol catabolite digoxin. Thus the higher load of tryptophan due to a meat diet and low fibre diet results in generation of kynurenine which has a ketamine-like action producing Neanderthal behaviour. The induction of heme enzymes indolamine 2,3-dioxygenase and tryptophan 2,3-dioxygenase results in heme depletion, activation of ALA synthase and porphyrias. The porphyrins can self-organize to form porphyrions and can act as a template to generate isoprenoid organism, RNA viroids, DNA viroids which all symbiozed to form actinidic archaea. The porphyrions have a wave-particle existence and in the presence of membrane intercalated porphyrion mediated sodium potassium ATPase inhibition can result in a pumped phonon system and dipolar porphyrion mediated quantal perception. The porphyrion intercalated cell membrane and sodium potassium ATPase inhibition can result in increased intracellular calcium and decreased intracellular magnesium resulting in mitochondrial dysfunction, cell membrane dysfunction, golgi body related protein processing dysfunction, defect in DNA and RNA function and disordered cell function. This increased intracellular calcium and reduced magnesium due to sodium potassium ATPase inhibition can result in immune activation, glutamate excitotoxicity, oncogene activation and

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disease states. The immune tolerance produces cancer, stem cell transformation and parthenogenesis. The cancer stem cells can develop meiotic programs generating parthenogenetic embryos which can survive and grow in the presence of immune tolerance created by kynurenines. The multiple parthenogenic embryos can create multiple personalities leading to schizophrenia and autism, grow into cancer, its stem cell metabolism with increased glycolysis and mitochondrial dysfunction can produce metabolic syndrome, stem cell mediated increased glycolysis can lead to immune activation and the normal tissue dying at the expense of parthenogenic embryos can produce degeneration. The chronic inflammation induced by quinolinic acid and other tryptophan catabolites producing autoimmune disease and quinolinic acid related cell death and degeneration. The tryptophan catabolic pathway produces civilizational syndromes in Neanderthals leading to their extinction. The tryptophan loading in higher primates and homo sapiens due to increased meat eating carnivorous habits in Eurasian steppes resulted in kynurenine catabolite induced immunosuppression, immunotolerance, archaeal endosymbiosis and neoneanderthalisation. Thus tryptophan loading due to a high meat and low fibre diet mediated kynurenine generation and immunotolerance would have led to archaeal endosymbiosis and evolution of homo neanderthalis and homo neoneanderthalis. The Neanderthals due to archaeal endosymbiosis had stem cell transformation, activation of meiotic programs in the stem cells, generation of germ cells and parthenogenesis. This resulted in female dominance and matriarchal societies. The intraspecies hybridisation and intragenomic conflict would also have contributed to parthenogenesis and reptilian gene expression consequent to interspecies hybridisation and intragenomic conflict. The genes affected are PDH, BKCD, SLOS, porphyria, Hartnup's disease, decreased cholesterol synthesis, CoQ synthesis and vitamin D synthesis. The Hartnup's trait would have developed to counteract the tryptophan loading in Neanderthals consequent to a high meat diet. This produces what is called as increased tryptophan catabolism and kynurenine catabolites mediated oshtoran syndrome described initially in the peri-Caspean areas. Endemic oshtoran syndromes would have existed in the Neanderthal population producing refractory thought and mood disorders, movement disorders including chorea and tic as well as schizophrenia and autism. The generation of tic disorders as a part of epidemic or endemic oshtoran syndrome would have led to vocal tic led language generation. The human language including ancient ones like Akkadian and Sanskrit developed first in peri-Caspian areas. The endemic oshtoran syndromes can also result in altered fat metabolism fatty liver and cirrhosis. It can produce adrenal dysfunction and hyperactivity producing sympathetic overactivity and parasympathetic underactivity leading

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to hypertension, vascular disease, cancer and autoimmune disease. The incidence of lupus-like syndromes and multiple sclerosis is high in endemic oshtoran syndrome. The tryptophan catabolism in oshtoran syndrome can produce cognitive dysfunction like Alzheimer's disease, Parkinson's disease and cell death. Parthenogenesis can lead to autistic phenotype with cerebellar dominance and a cerebellar cognitive affective disorder. Parthenogenesis induced reptilian gene expression can produce porphyrias and porphyrin induced extrasensory perception. This produces a creative tribe with quantal perception.

Archaeal endosymbiosis and neanderthalisation depended upon the kynurenine pathway mediated immunotolerance and immunoparalysis. The tryptophan catabolic pathway and kynurenine can have a ketamine-like effect due to NMDA blockade resulting in ecstasy, CCAS, cerebral cortical paralysis and extrasensory perception. The tryptophan catabolism is directed the kynurenine pathway resulting in depletion of melatonin and nocturnal activity and lack of sleep. The tryptophan catabolites kynurenine and kynurenic acid can produce decreased insulin synthesis, decreased insulin release, decreased insulin biological activity causing insulin resistance. Tryptophan catabolitic syndrome can result in sympathetic overactivity and a dysautonomic syndrome producing fear flight response and impulsivity. The induction of reptilian genes by intragenomic conflict and interspecies hybridisation can result in expression of the shikimate pathway producing alkaloidal neurotransmitter synthesis- LSD, nicotine, strychnine, mescaline producing shamanic states and extrasensory perception. The induction of IDO and heme depletion can result in porphyrias and porphyrion mediated extrasensory perception. The heme depletion can reduce the heme enzyme activities. The heme enzyme cytochrome C oxidase is inactivated resulting in mitochondrial dysfunction. The heme enzymes catalase and glutathione peroxidase are inactivated producing free radical stress. The heme enzyme cytochrome P450 is inactivated producing defective bile acid synthesis due to cholesterol 7-alpha hydroxylase deficiency causing metabolic syndrome X due to bile acid deficiency. The heme enzyme cytochrome F450 deficiency produces defective aromatase and beta hydroxy steroid dehydrogenase producing reduced testosterone, estrogen and cortisol synthesis. This produces the asexual and alternate sexual Neanderthal state. The heme enzyme lanosterol 14-alpha demethylase is inactivated inhibiting cholesterol synthesis and cholesterol depletion syndrome. The heme enzyme retinoic acid hydroxylase and cholecalciferol hydroxylases are deficient producing lack of vitamin D and A, defective immunity and uncontrolled cell proliferation.

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The initial event is an increased tryptophan catabolic pathway producing immunotolerance and immunoparalysis mediated by kynurenine. This produces endosymbiotic archaeal growth and neanderthalisation. This results in conversion of somatic cells to germ cells and activation of meiotic programs resulting in parthenogenesis. The homo neanderthalis reproduces by parthenogenesis. There is a malfunction in sexual reproduction resulting in a parthenogenetic species. Parthenogenesis is induced by actinidic archaea and RNA viroids. Climate change induced stress can produce parthenogenesis. The heme enzymes cytochrome P 450 dependent aromatase and beta hydroxy steroid dehydrogenase are defective resulting in lack of sex hormones producing asexuality and alternate sexuality. The heme enzymes NOS, CBS and HO1 are defective leading to lack of gasotransmitters NO, CO and H_2S resulting in dysautonomia and sexual dysfunction. The parthenogenesis results in formation of multiple embryos in tissues causing multiple personalities and schizophrenia and autism. Parthenogenesis also produces cancer and autoimmune disease. Parthenogenesis in the brain can result in death of normal tissue and neurodegeneration. The stem cell metabolonomics of parthenogenetic embryos with increased glycolysis and mitochondrial dysfunction results in metabolic syndrome. The heme depletion leads to porphyrias and porphyrions causing quantal perception. The tryptophan catabolic pathway related kynurenine can produce a ketamine syndrome akin to schizophrenia. Similar schizophrenic and autistic syndrome can occur in Neanderthals due to tryptophan alkaloids synthesized by reptilian gene activation- LSD and mescaline. This produces a shamanistic spiritual quantal perceptive society. The porphyrion induced quantal perception of low level EMF can result in cortical atrophy and CCAS and an impulsive state, aggressive state, violence, criminality, spirituality and terrorism. The Neoneanderthals form small colonies and tribal groups. The porphyrion mediated quantal perception results in formation of cohesive small groups with communal living creating an anarchic society. The anarchic society arises due to a cerebellar cognitive affective disorder and cortical atrophy consequent to quantal perception. This anarchic society is small and tribal, violent and aggressive, spiritual and transcendental. This results in loss of national identities and recession to primitive tribal identities. The civilizational national identities collapse and are replaced by small tribal identities causing permanent war, instability and crisis. The parthenogenetic reproduction in Neanderthals and Neoneanderthals as well as the lack of sex hormones related asexuality and alternate sexuality produces a matriarchal female dominant small social groups. This can happen in the setting neoneanderthalisation consequent to endosymbiotic archaeal growth. The neoneanderthalic matriarchal society is female dominant and the males are reduced to a

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marginal role in society creating complexes of hatred and vulnerabilities. This can be compared to the creation of a society female amazons and male eunuchs. The world tends to be transformed into an anarchic society of Amazonian women and male eunuchs. This represents the castrated male syndrome with deprivation of dignity, integrity, passion and pride. The Neanderthal communities functioned as anarchic small societies with communal living. The concept of altruistic, egoistic and obsessive love and nuclear family was absent in them. They lived as small groups of 15-20 with group consciousness. The porphyrion induced extrasensory quantal perception resulted in well-bonded anarchic communities with communal living and parenting of children. Sexual relationships became partnership between equals and functional. They were promiscuous, self-sufficient and were not into socially sanctioned relationships like marriage. The duty of the male eunuchoid was to the small community which is served relationships in the community depended on a common communal consciousness based on extrasensory quantal perception. The neanderthalic and neoneanderthalic communities were matriarchal and gender equal and did not have any hierarchal leadership. There were no kings or queens and it was a stateless society. It was a voluntary association and there was no written law or control except by consensus. This is represented by ancient Indian societies in the Buddhist period of Indian history described as Janapadams. These were small stateless societies ruled by equality and consensus. The ancient Harappan civilization was also structured as a stateless anarchic society. The same holds good for the ancient Celtic kingdoms in Wales, Scotland, Basque, Catalonia and Brittany. The concept of anarchic societies is exemplified in the Mandalas in Southeast Asia comprising modern Indonesia, Vietnam, Laos, Cambodia, Myanmar and Thailand. These civilizations were extensions of the South Indian Dravidian civilization which derived from the Harappan civilization. In modern times the anarchic societies were revived in the form of modern Grama Swaraj of Gandhi whose philosophy was basically anarchic. Gandhi was from the area of India where the Harappan civilization thrived in prehistoric times. The same anarchic societies can be seen in Jewish Kibbutz. The Jews, Celts, Dravidians all had a neanderthalic origin. This formed the basis primitive, anarchic Neanderthal communities. The global warming related endosymbiotic archaeal growth results in neoneanderthalisation. The actinidic archaea mediated quantal perception of low level EMF results in cortical atrophy and cerebellar dominance resulting in a cerebellar cognitive affective disorder. The archaea mediated quantal perception by porphyrions results in small bonded Neoneanderthal communities with anarchic forms of organisation. The human civilization owing to global warming and neanderthalisation of the brain regresses to form small tribal anarchic

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communities in perpetual warfare resulting in the end of nation states. The neoneanderthalic world of anarchy has set in. The matriarchal societies with parthenogenetic female result in the syndrome of castrated male eunuchs and gender equal societies. Anarchy becomes the norm of political life in the world with its attendant catastrophic destructions. The male eunuch syndrome coupled with cerebellar cognitive affective disorder in an anarchic world with tribal identities can produce terrorism, criminality, creativity, aggression, violence, lack of empathy and an autistic tribe. The parthenogenetic Neoneanderthals will eventually become extinct due to lack of gene diversity in the population.

Climate change and exposure to low level internet EMF fields can induce HO1 activity and increased porphyrin synthesis. The porphyrins can form porphyrions which act as a template for the formation of RNA viroids, DNA viroids and isoprenoids by abiogenesis. They are symbiose to form actinidic archaea and RNA viroids. This results in endosymbiotic archaeal mediated stem cell transformation. The endosymbiotic archaea can induce toll receptor activation and activate HIF alpha resulting in stem cell metabolonomics with increased glycolysis and mitochondrial dysfunction. The endosymbiotic archaea can induce aldose reductase and fructose metabolism producing frucotsemia, lipid synthesis, mucopolysaccharidosis, porphyrias and hibernation/zombie syndromes. The increased glycolysis and Warburg phenotype can activate the immune system. The stem cells meiotic programs get activated and results in the formation of germ cells and parthenogenesis. Thus climate change and internet exposure results in a reproductive change to predominant asexual reproduction and parthenogenesis. This results in an asexual male eunuch phenotype. This results in gender equality and female dominance. The male population becomes dispossessed and is peripheral to the functions of society. This creates a society of male eunuchs and matriarchs. The society regresses to the matriarchal regime with widespread social consequences. The porphyrions and actinidic magnetotactic archaea can perceive low level EMF fields producing frontal cortical atrophy and cerebellar dominance. This produces the cerebellar cognitive affective disorder on an epidemic scale. The cerebellum is the site of impulsive behaviour, aggression, criminality, extrasensory perception, spiritual phenomena and dreams as well as trance. This results in an impulsive society without any logic or reason producing lawlessness and anarchy. This produces an anarchic world of Neoneanderthals with small social tribal groups and fall of organized civil society and nation states. The consequence of these are widespread lawlessness, wars, criminality, terrorism, sexual promisquity, demise of the nuclear family, alternate sexuality, communal living and

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breakdown of social structures of the homo sapien society. The anarchic eunuchoid world of Neoneanderthals opens up. Thus the climate change and internet produces a sexual change, anarchic social change, and reproductive change. The Neanderthals live in a dream world of imagination and paranormal phenomena modulated by cerebellar hypertrophy and function. This produces a spiritual world of trances and religiosity. The Neanderthal brain activates the default network in the frontoparietal lobe producing day-dreaming, creative visualization, fantasy phenomena, depersonalisation and altered consciousness. The increased tryptophan catabolism produces kynurenine which blocks the NMDA receptor producing a ketamine or phencyclidine schizophrenic psychosis on an epidemic scale. The increased kynurenine can also block the alpha-7 nicotinic acetyl choline receptor, decreased serotoninergic activity and activates dopaminergic receptor. The tryptophan catabolic pathway also produces hallucinogenic alkaloids like strychnine, mescaline and LSD. This contributes to day-dreaming shamanic states in Neoneanderthals. This contributes to creativity, autism, schizophrenia, lack of social contacts, small tribal populations and a dream world in Neanderthal society. The increased porphyrions produces quantal perception and a dream world. The Neanderthals form small social groups and lack social contacts with out of kin population producing small autistic tribes. The Neoneanderthals and homo sapiens can be differentiated by the following phenomena of unconscious versus conscious, religion versus science, magic versus logic, dream versus waking and psychic versus material. The Neoneanderthals have great paranormal ability and the society was more religious and spiritual. They created cities of dreams which were classically psychopathic, magical and dream-like. The Neanderthal culture of magic, culture and spirit was different from that of homo sapiens. The myths, folklores and religiosity are derived from the Neanderthals. The worship of serpents as symbols of god and use of crystals and minerals as exemplified by Siddha forms of medicine are neanderthalic. They painted the skin and face creating extensive tattoos, wore ornaments and were extraordinarily ceremonial and ritualistic. They created dance as form of worship as comparable with the concept of Shiva as a celestial dancer. The neanderthalic tribes were nocturnal and were aware of the star constellations of big bear, little bear and draco. The Neanderthals were nocturnal tribe because of photosensitivity due to porphyrias which made them favour the night time to the day. The neanderthalic Gods were from the outer cosmos and the civilization was seeded by intergalactic contacts mediated by cometary and asteroidal impacts. The comets and asteroids carried magnetotactic actinidic archaea which formed colonies transforming to homo neanderthalis. The Neanderthals were religious and have funeral ceremonies and believed in

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after life. The Dravidian civilization, Uluzzian and Chatelperonean civilization as well as the Basque and Catalan were neanderthalic. They were a civilization of dreams, rituals, dances, religiosity and trances owing to an epidemic CCAS. The Neanderthals were nocturnal tribe who worshipped the moon goddess were matriarchal food gathering and women governed society. The homo sapiens were the sun worshipping patriarchal hunter warriors and male governed society. The females were mere adjuncts. The Neanderthal society was religious, ritualistic, symbolic with a cosmological approach to the world. It was a society of creative imagination. The society was predominantly parthenogenetic and asexual. The tantric form of spirituality and the sense of spiritual awakening indicated by the Kundalini showed the asexual nature and eunuchoid characteristic of the Neanderthal tribe. The cerebellum is the site of creative visualization, paranormal and dreams. The Neanderthal brain was cerebellar dominant creating trance-like states, day-dreaming, telepathy, psychic healing, poltergeist phenomena and religiosity. It was a high civilization of dreams mediated by the cerebellum. The cerebellum produces an ataxic motor syndrome as well as dysmetria of thought. The dysmetria of thought results in an autistic and schizophrenic tribe of Neanderthals and Neoneanderthals produced by climate change and internet exposure. The cerebellum is the site of common embryonal tumours and archaea induced parthenogenesis is higher in the cerebellum producing cerebellar hypertrophy, cerebellar dominance and cerebellar dysfunction. The archaea induced parthenogenesis produces a cerebellar dominance Neoneanderthal brain and the dream civilization of Neanderthals.

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The homo sapiens mind can be characterized by the ego and the homo neanderthalis by id. Homo sapien qualities are sun, fascism, psychosis, logic, science, awake, adult, day, God, male and yang, versus the homo neanderthalis qualities are communism, moon, neurosis, intuition, religion, day-dreaming, child, night, devil, female and ying. The Cro-Magnons were hunters, patriarchal and sun worshipers. The homo neanderthalis were moon worshipers, patriarchal and food gatherers. The homo neanderthalis inhabited Europe and Middle-East. Gooch postulated the double helical concept of the mind as opposed to hemispheric dominance. The double helical mind of Gooch includes the cerebellum which is concerned with dreaming and creativity and the cerebrum concerned with logic. His concept of the sacred life of humans, the double helix of the mind, the cities of dreams, the creations of inner space and the divided self are described extensively in his work. The cerebellum is the site of paranormal and supernatural phenomenon and gives rise to creations from the inner space. These are the creations from the inner space mediated by the cerebellum

constituted the basis of vampires, troglodytes, demons and asuras. The cerebral cortex is the site of ego and the cerebellum the site of id. The cerebellum becomes dominant owing to archaea and viroid induced embryonal parthenogenesis. The interbreeding of Cro-Magnon with Neanderthals resulted in a burst of spirituality, artistry and creativity. The human behaviour can be explained by the double helical concept of mind. The socialists are neanderthalic and the Cro-Magnon conservatives. The Neanderthals were red-haired with slanting forehead and were worshippers of the moon. Moon worshipping was common in the Fertile Crescent which included Turkey, Egypt, Harappa, Sumeria and Arabia. The basis of these civilizations was lunar. The Neanderthal societies were matriarchal, completely promiscuous and sex driven and lead by women. They can be compared with the behaviour of bonobo primates. The Neanderthals were short-statured, left-handed and near-sighted. The Cro-Magnons were taller, long-sighted and right-handed. The Neanderthals had a communal living while the Cro-Magnons were monogamous and pair-bonding. The Neanderthals have a larger cerebellum, pyknic body type, non-athletic body type, left-handedness, less of male pattern baldness, prominent eye brows, recessive chins, were neurotic, and is less of psychosis, more hypnotisable and better night vision. The neanderthalic phenotype can be seen in drop-outs, addicts, alcoholics, unemployed and insomniacs. They lived in a world of day-dreaming and increased sexual activity as well as alternate sexuality. The Neanderthals were religiously organized were seen in south Europe, east Europe among the untouchables while the Cro-Magnons had large civil society and were seen in north Europe, west Europe, Brahmin communities and were taller. The political ideas of the French revolution, the Russian revolution and the Taliban were neanderthalic while that of the Nazis and KKK were Cro-Magnon. The Neanderthals were basically a day-dreaming, lunar society and were represented by the Celts, the witches, the Kabalist, the Rosicrucian and Judaist. The Nazi hatred of Jews and the western hatred of Islam are based on their neanderthalic origin. The homo sapiens on the other hand were worshippers of the sun. The Neanderthals were left-handed and left-leaning while the Cro-Magnons were right-handed and right-leaning. The Neanderthal societies are represented by Nairs, Nagas, Sakas, Scythians, Saxons, Celts, Berbers, Sumerians, Dravidians, Harappans, Etruscans and Egyptians. The moon was worshiped in Egypt, Babylon, India, Sumeria, Assyria, Akkadians and Chaldians. The Moon God was called as sin and Thoth. They are the oldest human deities and are represented by Shiva in India. The Egyptian God Isis, the Celtic God Morgana, the Greek God Artemis, Aphrodite and Selene were representative of the lunar God. All the pagan festivals depend upon the lunar cycles. The Moon God was worshipped in the Kabbala, the Talmuds, the Ur of

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Chaldees, Harappa and in all of the Fertile Crescent. The Harappan civilization had Shiva with his crescent symbol representing lunar worship. Soma was the presiding deity of Rig Vedic ceremonies and is represented by moon. The soma is actually a drink of milk, honey, cannabis and other plant extracts which produced a hallucinatory state. The Harappan culture was neanderthalic and lunar centric as also the succeeding Shaivite sects of Hinduism like Aghoras and Nagas. The term for mental illness- lunatic came from lunar worship. The Cro-Magnon civilization was the opposite with sun being the dominant and logic being the culture of the society. The wars of history and hatred of civilizations like Jews, Islam and Hindus were based on neanderthalic origin and their lunar worship.

The Neanderthals evolved by seeding of cometary reptilian genes from outer space. The intergalactic porphyrions, RNA viroids, DNA viroids and template replicating magnetotactic archaea are the basis of cometary genes and seeding of life on earth. The template replication and parthenogenesis are related to evolution of Neanderthals. The intragenomic conflict and interspecies hybridisation produces expression of reptilian genes in human- PDH deficiency, mitochondrial dysfunction, SLOS and porphyria. The parthenogenesis and matriarchy are related as also SLOS, asexuality and alternate sexuality. This produces on-hierarchal anarchic societies. The equality and gender sensitivity are related to the serpent cult of Khylst and Capracoites, Nagas and Asuras- Dravidians and Sumerians-Punts and Egyptians. The Mother Goddess, the serpent people and Neanderthals are synonymous. The Dravidians, Celts, Egyptians, Jews, Berbers, Sakas, Nagas, Nairs, Asuras and Neanderthals were parthenogenetic. They consumed a high fat high protein diet- milk and honey, and had persisting adult lactose tolerance. This contributed to the consumption of a ketogenic diet, stem cell metabolonomics and parthenogenesis. Global warming and climate change can lead to archaeal endosymbiosis and neanderthalisation of the species. This leads to interspecies hybridisation and intragenomic conflict contributing to parthenogenesis. Archaea and RNA viroids can induce parthenogenesis. Parthenogenesis can lead to matriarchy and female dominance. Parthenogenesis can produce expression of reptilian genes, porphyrias, extrasensory perception and autistic phenotype. This results in a creative, spiritual and matriarchal population. This has a similarity to an ant and bee colony. They behave like parthenogenetic Neanderthal societies. The reptilian gene expression produces the SLOS phenotype, low cholesterol and lack of sex hormones leading to asexuality and alternate sexuality.

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Parthenogenesis can lead to human disease. Parthenogenetic Somatic pregnancy can lead to cancer. Parthenogenetic embryos behave like autoantigens causing autoimmunity and autoimmune disease. The parthenogenesis and stem cell glycolysis can lead to lymphocyte activation and autoimmune disease. Parthenogenesis in brain can lead to multiple personalities causing schizophrenia and autism. Parthenogenetic embryos in neural tissue can lead to neurodegeneration by starving the host cells. Parthenogenesis leads on to Warburg phenotype. The Warburg phenotype contributes to anaerobic glycolysis, mitochondrial dysfunction and metabolic syndrome. Parthenogenesis can lead to sexual evolution and alternate sexuality. Parthenogenesis will lead to a lack of demand for sexual reproduction. The expression of reptilian genes and SLOS phenotype produces cholesterol depletion and sex hormone deficiency. This produces an asexual phenotype. Extremes of climate change can produce archaeal symbiosis and parthenogenesis. This results in interspecies hybridisation and intragenomic conflict. This leads to a matrilineal society and female dominance. The status of males is low in matrilineal societies. The Neanderthal societies were female dominant. The interspecies hybridisation and intragenomic conflict leads to archaea and RNA viroid induced parthenogenesis. The reptilian gene expression produces SLOS phenotype, low cholesterol, low sex hormones and asexuality. This results in alternate sexuality, matrilineal societies, female dominance and DEVI syndrome. This contributes to autistic phenotype and neanderthalic autistic tribes.

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The climate change induced parthenogenesis is due to mediation by archaea and RNA viroid. This produces matrilineal society, matriarchy and asexual societies. The reptilian gene expression and porphyrias leads to generation of porphyrions and extrasensory perception. Parthenogenesis and Mother Goddess cult are related. The porphyrions produces extrasensory quantal perception and a quantal civilization. This leads to creativity and autism. The return of Nagas and Asuras due to climate change mediated archaeal endosymbiosis and parthenogenesis is related. Archaea and viroid can induce parthenogenesis. Archaea and RNA viroid induced mitochondrial dysfunction and upregulated glycolysis resulting in stem cell transformation of somatic cells. Stem cell metabolonomics include anaerobic glycolysis, PDH dysfunction, CoQ 2 mutation and mitochondrial dysfunction. The somatic cells which are stem cell transform in the setting of immune activation and cytokine secretion can get converted to germinal cells- sperm and ova. This can result in fertilisation and parthenogenesis. The porphyrions result from intragenomic conflict/interspecies hybridisation and reptilian gene expression. The archaea can induce the HIF alpha and toll receptor

activation resulting in glycolysis, mitochondrial dysfunction and GABA shunt. This also produces porphyrin synthesis and porphyrions. Porphyrins can produce extrasensory perception/quantal perception. Porphyrins can result in quantal perception and a quantal civilization existing in multiverse universes. The actinidic archaea and porphyrions have magnetotactic function resulting in mirror neuron function. This results in an autistic tribe. The cerebral cortex becomes atrophic and the cerebellar cortex dominant producing a cerebellar cognitive affective disorder. Interspecies hybridisation and intragenomic conflict results in archaeal symbiosis and parthenogenesis. There is intragenomic conflict and interspecies hybridisation producing this phenomenon. This results in reptilian gene expression and the shikimic acid pathway activation. This produces increased dopamine synthesis. Hyperdopaminergic transmission can produce endemic la tourette disease with motor and vocal tics. The hissing like vocal tics led to the evolution of language.

The Neanderthals consume high fat high protein, ketogenic diet. This resulted in hibernation, fructolysis and fructosemia, lipogenesis and fat deposition, mucopolysaccharide accumulation, parthenogenesis and stem cell metabolism, glycolysis and mitochondrial dysfunction. High fat high protein diet can lead to decreased SCFA, modulated histone acetylation, HERV expression and genomic modulation. Low levels of short chain fatty acids including butyrate consequent to a low fibre diet produces decreased HDAC is related to HERV expression. Reptilian gene expression can lead to homo cystinurias and genomic expression modulation by demethylation. Neanderthalisation of the brain produces extrasensory perception, cortical atrophy, cerebellar dominance and cerebellar cognitive affective disorder (CCAS). The Neanderthal quotient is related to neuroticism, social fear, social avoidance, depression, bipolar disorders and autism. The Neanderthal quotient is related to fear of strangers, aggressive behaviour and social limitation. The NQ is also related to sexual promiscuity, emotional stoicism and fear in social situation. The NQ is also related to anxiety, xenophobia, lack of empathy, compassion. The NQ quotient is related to lack of working memory and consciousness and develop long-term memory. The NQ is related to risky physical, social and sexual behaviour. The NQ is related to small groups of 8-10 numbers. The Neanderthals groups were small. The homo sapien groups numbered 150 and were large. The NQ form alliances within kin groups and family ties were strong. The homo sapiens could form alliances with non-kin groups and large civilizations developed.

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The autistic and schizophrenic phenotype has been attributed as to refrigerated mother of the Neanderthal matriarchal phenotype by Leo Kanner and Bruno Bettelheim. The homo

neanderthalis is female dominant matriarchal society. The Neanderthal brain contributes to the cerebellar cognitive affective disorder with a high incidence of autism and schizophrenia. This leads to parental coldness, obsessiveness, social isolation and ritualism. Autistic and schizophrenic neanderthalic mothers give rise to autistic and schizophrenic children. Autism and schizophrenia are disorders of socialization. The mothers of autistic and schizophrenic children are socially withdrawn and dominate their children leading on to what is called as Mahler syndrome or symbiotic psychotic syndrome. This is a syndrome of dedifferentiation and deanimation with the child perceiving itself as an extension of the mother. The Neanderthals have magnetotactic archaea and porphyrion induced quantal perception and the dominant mother is undifferentiated psychologically from the Neanderthal children. The Neanderthal children of dominant mothers become socially withdrawn and isolated leading to paleologic thinking process contributing to autism and schizophrenia. The Neanderthal brain evolved due to archaeal symbiosis and archaeal cholesterol catabolism leads to decreased levels of cholesterol and bile acids in Neanderthals. The archaea use cholesterol as an energy substrate and have cholesterol oxidase activity. Bile acids can bind to olfactory receptors and can modulate the limbic lobe and human behaviour. Bile acids are involved in social bonding and bile acid deficiency in Neanderthals contributes to the formation of smaller societies and tight family groups. The bile acid deficiency contributes to decreased social bonding in Neanderthals and the genesis of autism and schizophrenia. The family relationships in the matriarchal society are tight creating the empty fortress syndrome.

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The porphyrions have a wave-particle existence and can exist in the intergalactic space. They form a template for the formation of abiogenetic isoprenoid organism, DNA viroids, RNA viroids, double helical templates resembling reptiles. The formation of universe depends on abiogenetic magnetotactic archaea related intergalactic magnetic field. The cometary genes derived from intergalactic archaea and viroids by asteroidal impact seeds life in earth. The intergalactic archaea and cometary genes produced the evolution of life on earth. The actinidic archaeal colonies became multicellular and evolved into Neanderthals. The parthenogenetic embryos of Neanderthals have template mediated replication.

The interspecies hybridisation and intragenomic conflict resulted in archaea and viroid induced parthenogenesis. This produced matriarchy and female dominance. The reptilian gene expression and SLOS phenotype resulted in low cholesterol, sex hormones and asexuality. This produces a culture of sexual equality and alternate sexuality. The porphyrion induced ESP can lead to unified consciousness, equality and oneness. This produces an

anarchic and non-hierarchal society. The neanderthalisation of the brain can lead to a cerebellar cognitive affective disorder. The CCAS leads to evolution of evilness and spirituality. The CCAS also results in illogical impulsive acts contributing to terrorism. The extrasensory perception and ataxia due to cerebellar dysfunction can lead to creativity, dance, painting and art.

The interspecies hybridisation and intragenomic conflict can lead to parthenogenesis- archaea and viroid induced. The reptilian gene expression and stem cell metabolism leads to mitochondrial dysfunction, PDH deficiency, glycolysis, fructolysis, fructosemia, lipogenesis, hibernation syndrome, mucopolysaccharidosis and zombie syndrome. This produces metabolic syndrome with obesity and diabetes mellitus mimicking reptilian habits. The interspecies hybridisation and intragenomic conflict leads to climate change, archaea and viroid induced parthenogenesis. The reptilian gene expression produces HIF alpha and increased glycolysis immune activation. The somatic parthenogenesis is related to autoimmunity. Reptilian gene expression and digoxin synthesis leads to immune activation. The reptilian genes and HLA expression are related. The HLA genes are derived from Neanderthals. The archaea and RNA viroid induced toll receptor activation can lead to immune activation. This produces autoimmune disease. The interspecies hybridisation and intragenomic conflict can result in parthenogenesis, archaea and RNA viroid induced. The reptilian gene expression leads to porphyrias. The porphyrions are related to quantal perception. The Neanderthals are retroviral resistant with less of HERV expression leading to cortical atrophy and cerebellar dominance contributing to CCAS. The porphyrion induced quantal perception can lead to a quantal civilization. This results from neanderthalisation of the brain, decreased cerebral cortex. The interspecies hybridisation and intragenomic conflict as said before can lead to parthenogenesis- archaea and viroid induced. The reptilian gene expression leads to porphyria and porphyrion generation producing ESP and quantal perception. The mirror neurons function is related to archaeal porphyrions. This leads to quantal perception and civilization as well as biological reincarnation.

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Table 1. Parthenogenetic history in female pregnancies

Group	Percentage
Matrilineal Nair	11
Non-matrilineal	2

Table 2. Neanderthal quotient

Group	NQ
Matrilineal Nair	High
Non-matrilineal	Low

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CHAPTER 48

PENINSULAR INDIA AND HUMAN EVOLUTION - HOMO SAPIEN AND HOMO NEANDERTHALIC EVOLUTION - A LINEAR TRANSFORMATION AND CASSANDRIC EXTINCTION

The homo neanderthalis evolved first in the backwaters of peninsular India. The dominant matrilineal societies with neanderthalic phenotypic features are seen in peninsular India. Homo neanderthalic evolves consequent to archaeal symbiosis occurring in extremes of climate. The aquatic ape evolved in the forest adjacent to backwaters and developed bipedalism consequent to hunting for fish and water lilies in the backwaters of Kerala. The endosymbiotic archaea catabolises cholesterol for its energy. The cholesterol ring is oxidized to pyruvate and the side chain to short chain fatty acids. The archaeal endosymbiosis leads to the homo neanderthalic phenotype with autistic savantic features. It can be called as the neanderthalic autistic tribe. The homo neanderthalis matrilineal species is produced by archaeal endosymbiosis. This leads to increased incidence of civilizational diseases consequent to induction of the Warburg phenotype. There is a high incidence of metabolic syndrome X, cancer, autoimmune diseases, neurodegenerations, schizophrenia and autism in the matrilineal Nair community. This leads to eventual extinction of the homo neanderthalis species with fossilized matrilineal societies living in Kerala, Basque, Wales and Berbers.

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The following mutations are seen in the general homo sapien population of Kerala- the SLOS mutation involving 7DHCR, pyruvate dehydrogenase mutation, CoQ mutation, branched chain ketoacid dehydrogenase mutation, hyper homocysteinemia, Hartnup's disease and porphyria. Studies on patient population attending a metabolic clinic shows a high incidence of these mutations- SLOS (30%), PDH mutation (25%), CoQ2 mutation (30%), hyper homocysteinemia (30%), Hartnup's disease (10%), BKCD mutation (20%) and porphyria (30%).[1-4] The mutations are induced by RNA viroids secreted by the archaea. The archaeal RNA viroids get converted to DNA viroids by HERV reverse transcriptase and are integrated by HERV integrase as non-coding sequences in the Neanderthal genome. This produces jumping genes and mutations. The hyper homocysteinemia and homocystinuria leads to modulation of methylation and demethylation regulating genomic expression. The homo neanderthalis consume a high protein diet producing a protein toxicity syndrome. The Hartnup's disease mutation and BKCD mutation were acquired to overcome protein toxicity. The induction of the SLOS mutation leads to decreased cholesterol synthesis. Cholesterol

oxidation is required for archaeal energetics. The SLOS mutation producing autism results in decreased cholesterol synthesis and decreased substrates for archaeal energetics. The PDH mutation leads to increased generation of ammonia from pyruvate. The endosymbiotic archaea are also ammonia oxidizing and this serves as an alternate inefficient pathway for energetics. The defective archaeal energetics leads to decreased density of endosymbiotic archaea and eventual extinction of the symbiotic homo neanderthalic species. The homo neanderthalic species with reduced endosymbiotic archaeal density becomes the homo sapiens species. The homo neanderthalic species has reduced HERV sequences and are retroviral resistant consequent to archaeal endosymbiosis. The decreased density of archaeal endosymbiosis leads to increased endogenous retroviral replication and integration into the non-coding sequence of the homo neanderthalic genome producing genomic diversity and flexibility and evolution of the homo sapien species from the homo neanderthalic species. This leads to eventual extinction of the homo neanderthalis species as a form of survival in the setting of civilizational diseases. Thus the homo sapien species evolved from the homo neanderthalic species in peninsular India as a form of protection from civilizational diseases. The homo sapien species with SLOS mutation also showed less number of autistic phenotypes but with no savantic qualities. The homo sapien species is a normal psychological phenotype and is less intelligent and creative.

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The homo neanderthalic species migrated from peninsular India to Eurasia consequent to tsunamis in the Indian ocean. The last settlements of the homo neanderthalic species are seen in Eurasia. The remnant homo neanderthalic species are seen in peninsular India, Basque, Celtic regions and Anglo-Saxon regions. Thus peninsular India is the cradle for human evolution- the homo neanderthalis first and transformation to homo sapiens later- by mutations required for survival and protection from civilizational diseases producing the homo sapiens from the neanderthalic species. The peninsular India contains remnants of the matrilineal homo neanderthalis societies and the patrilineal homo sapien societies. The community composition of Kerala is an example with matrilineal Nair community of homo neanderthalic lineage and the non-matrilineal Ezhava and scheduled caste/tribe communities of homo sapien lineage. The SLOS mutation autistic phenotype was more common in the non-matrilineal Ezhava and scheduled caste/tribe communities of homo sapien lineage. The SLOS mutation autistic phenotype was non-creative. The autistic phenotype with savantic characters were more common in the matrilineal Nair community of homo neanderthalic lineage.

The global warming leads to increased endosymbiotic archaeal growth and the extremophilic archaea depends upon ammonia oxidation for its energetics. The global warming and increased endosymbiotic archaeal growth leads to increase in the density of the remnant neanderthalic species and their multiplication in Basque, peninsular India, Celtic regions and Anglo-Saxon regions. The expanding homo neanderthalic phenotype is susceptible to civilizational diseases like cancer, autoimmunity, neurodegeneration, metabolic syndrome, autism and schizophrenia and eventually dies out. It is not an efficient phenotype for population expansion.

Global warming also results in archaeal endosymbiosis in the homo sapien phenotype. The growth of endosymbiotic archaea in the homo sapiens surviving on ammonia oxidation for its energetics results in transformation of homo sapiens to homo neoneanderthalis. This is possible consequent to the PDH mutation which converts pyruvate to ammonia. The growth of endosymbiotic archaea in the homo sapiens consequent to global warming is less efficient owing to decreased supply of cholesterol substrate for energetics owing to SLOS mutation. The archaea has to depend on ammonia oxidation for its energetics and it is inefficient leading to lesser degree of archaea endosymbiosis. The homo neoneanderthalic phenotype is of a normal psychological makeup and is dominated by the expanding homo neanderthalic autistic savantic phenotype. The endosymbiotic archaea in the homo neanderthalic species generates RNA viroids which recombine with homo neanderthalic RNA viroidal sequences produces new RNA viruses which exterminate the homo sapien species inhabiting the modern world. The homo sapiens with lesser degree of archaeal endosymbiosis constituting the homo neoneanderthalic species succumbs to superbugs and RNA viral epidemics and is exterminated. The homo neanderthalic species are like bats serving as viral reservoirs generating new RNA viruses, but resistant to the RNA viruses themselves. The homo neanderthalic remnants which will survive get reduced in numbers by civilizational disease and eventually the human race will become extinct in earth. The homo neanderthalic species where the endosymbiotic archaea depends upon cholesterol energetics expands at rapid rate than the homo neoneanderthalic species where the endosymbiotic archaea depends upon ammonia for energy. Thus human evolution as homo sapiens and homo neanderthalic depends upon symbiosis and use of cholesterol as a substrate for energetics of the endosymbiotic archaea. The human evolution from homo neanderthalic to homo sapiens is a linear transformation owing to the generation of the protective SLOS mutation in the homo neanderthalic species. This converts the homo neanderthalic species to homo sapien species

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due to reduced archaeal endosymbiosis consequent to reduction in cholesterol energy substrate as a result of SLOS mutation. Cholesterol forms an important molecule in human evolution by symbiosis. The archaeal endosymbiosis also determines the neurological phenotype with the homo neanderthalic autistic savantic phenotype and homo sapien/homo neoneanderthalic normal psychological cognitive non-creative phenotype. This linear transformation of homo neanderthalic to homo sapiens and then to homo neoneanderthalis depending upon climate change is based upon archaeal symbiosis and use of cholesterol as an energy substrate. The homo neanderthalic never became extinct, but only got transformed to homo sapiens by the SLOS mutation and inhibition of archaeal endosymbiosis as a form of protection against civilizational disease. The recurrence of global warming leads to expansion of the remnant homo neanderthalic matrilineal societies and conversion of homo sapiens to homo neoneanderthalic phenotype, both of which are doomed to Cassandric extinction.

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